



KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by: S.K.P.V.V. Hindu High Schools Committee) Kothapeta, Vijayawada - 520 001. A College with Potential for Excellence

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Date: 16/02/2023

STUDENT NOTICE

PG I Semester End Examinations for I MBA & I MCA are going to be held as per the following schedule. Hence, all the students are advised to make a note of this. Timetable is herewith enclosed and bulletined in the notice board. For more details, visit www.kbncollege.ac.in

Date	Time	MBA	MCA
	09:00 AM	R20MBA101	R20MCA103
24/02/2023	to	Management Process &	Programming and Problem
	12:00 Noon	Organisational Behaviour	solving using Python
		R22MBA101	R22MCA101
27/02/2022	09:00 AM	R20MBA102	R20MCA102
27/02/2023	to	Managerial Economics	Data Structures
	12:00 Noon	R22MBA102	R22MCA102
	09:00 AM	R20MBA103	R20MCA101
01/03/2023	to	Business Environment and	Mathematical and
	12:00 Noon	Business laws	Statistical Foundations
		R22MBA103	R22MCA103
	09:00 AM	R20MBA104	R20MCA105
03/03/2023	to	Financial Reporting and analysis	Operating Systems
	12:00 Noon	R22MBA104	R22MCA104
	09:00 AM	R20MBA105	R20MCA104
06/03/2023	to 12:00 Noon	Business Analytics for	PROBABILITY AND
		Managerial Decision making	STATISTICS
		R22MBA105	(OLD BATCH)
	09:00 AM	R20MBA106	R20MCA106
08/03/2023	to	Managerial Communication	COMPUTER ORGANISATION
	12:00 Noon	R22MBA106	(OLD BATCH)
		R20MBA107	Personality Davids
	09:00 AM	Personality Development	Personality Development through Life Enlightenment
10/03/2023	to	through Life Enlightenment	skills
	12:00 Noon	skills	R22MCA105
		R22MBA107	NZZIVICA105

Vice-Principal

Regd.No: KAKARAPATI BAVANARAVAN	Room No: A COLLEGE (AUTONOMOUS) :: PG
I SEMESTE	ER END EXAMNATION
Class: I MBA Subject: Management Title of the Paper: MANAGEMENT PROCESS AND C Subject Code: R20MBA101/MBA10118/22708 W.E.F: 2020-21	Max.Marks: 70M Pass Marks: 28M Pass Marks: 28M Date: 3Hrs Date: 24 02 2023 Time: 9am to 12pm
	SECTION: A
I. Answer any Five of the following.	$5 \times 3 = 15 M$
Nature of Management.	
Decentralization.	
3 Organizational Behaviour.	
Decision Tree Analysis.	
5 Perception.	
6 Organizational conflict.	
Control Process.	
S Organizational Development.	
	SECTION: B
II. Answer the following questions.	5 A 6 - 401VI
Define Management. Explain the (OR)	functions of Management.
IC Explain Recent Trends in Manage	ement Practices in the wake of Globalization.
What is Planning? Explain the pro	ocess of planning.
(OR)	de probabilitato dello controlo e esperante de la constitución de la controlo de la controlo de la controlo de
2_What are Formal and Informal Or	
13 Explain Maslow, Herzberg Theor	ies of Motivation.
(OR)	officially and the second of t
Explain different Leadership Style What is Personality? Explain the	
(OR)	Theories of reisonality.
16 Define Organizational Behaviour.	Evaluin the importance of OR
	are the different types of groups? Explain.
(OR)	are the different types of groups: Explain.
18 What is meant by Organizational	Conflict? What are the steps taken to reduce it.
SECTIO	N-C (15 X 1 = 15M)
Case Study:	
	at Reece Enterprises and decided to drive upstate to a small
lakefront lodge for some fishing and relaxation. To	ony had worked for the previous ten years for the O'Grady

Company, but O'Grady had been through some hard times of late and had recently shut down sev operating groups, including Tony's, to cut costs. Fortunately, Tony's experience and recommenda made finding another position fairly easy. As he drove the interstate, he reflected on the past ten yea apparent situation at Reece. At O'Grady, things had been great. Tony had been part of the team fron The job had met his personal goals and expectations perfectly, and Tony believed he had grown gr person. His work was appreciated and recognized; he had received three promotions and many increases. Tony had also liked the company itself. The firm was decentralized, allowing its considerable autonomy and freedom. The corporate Culture was easy going. Communication was seemed that everyone knew what was going on at all times, and if you didn't know about somethin easy to find out. The people had been another plus. Tony and three other managers went to lunch o played golf every Saturday. They got along well both personally and professionally and truly worked as a team. Their boss had been very supportive, giving them the help they needed but also staying o way and letting them work. When word about the shutdown came down, Tony was devastated. He that nothing could replace O'Grady. After the final closing was announced, he spent only a fev looking around before he found a comparable position at Reece Enterprises. As Tony drove, he reflect "comparable" probably was the wrong word. Indeed, Reece and O'Grady were about as different as yo get. Top managers at Reece apparently didn't worry too much about who did a good job and who didn seemed to promote and reward people based on how long they had been there and how well they pla never-ending political games.

Maybe this stemmed from the organization itself, Tony pondered. Reece was a bigger organ than O'Grady and was structured much more bureaucratically. It seemed that no one was allowed to ma sort of decision without getting three signatures from higher up. Those signatures, though, were hard All the top managers usually were too busy to see anyone, and interoffice memos apparently had ve priority. Tony also had had some problems fitting in. His peers treated him with polite indifference. He that a couple of them resented that he, an outsider, had been brought right in at their level after they h to work themselves up the ladder. On Tuesday he had asked two colleagues about playing golf. The politely declined, saying that they did not play often. But later in the week, he had overheard them n arrangements to play that very Saturday. It was at that point that Tony had decided to go fishing. steered his car off the interstate to get gas, he wondered if perhaps he had made a mistake in accepti getting finding without out offer Reece

Questions:

1. Identify several concepts and characteristics from the field of organizational behaviour that this illustrates?

a series of the first at the William Property and all are is.

- 2. What advice can you give Tony? How would this advice be supported or tempered by concepts and processes?
- 3. Is it possible to find an "ideal" place to work? Explain.

_	Room. No: I SEMESTER END EXAMINA	Regd. No:	
al,	I SEMESTER END EXAMINA	ATION	
`	: I MBA	Max Marks	. 73%
~113	Lui- of paper . Managerial Decironing	Pass Marks	· 0 - t- 12 pm
and	Title of paper Code : MBA 10218 / R2011BANO2 / R22 MBAIO2	Time	: 9am to 12 pm
an.	Duration	Date	. 27/02/202
,,	W.E.F : 2018-2019		
1	SECTION A		
)Ie	FIVE of the following		5X3=15M
ina	Answer any FIVE of the following		
53	write a short notes on :		
it	Define Managerial Economics and write its Nature.		
en :	2. Law of Demand.		
ge	ISO Quants and ISO Cost.		
of			
Wie	5 Measurements of Inflation.		
	6 Investment Function.		
col	Project Maximisation.		
C	S Fiscal Policy.		
:d	SECTION-B	and the second of the second	SOUTH STATE OF THE
A	Answer the following questions		5X8=40M
	q. Explain Functions and Responsibilities of a Manageria (OR)		
	10 Explain types of Elasticity of Demand and their Manag	gerial uses.	(A)
1 -	21 Explain various kinds of Costs.		
1	2 Explain perfect & Imperfect competition Markets with	an example.	
1.	13 Explain Economies and Diseconomies of Scale.		
11	Write an essay on Baumol's Model.		
14	Explain recent changes found in Indian Economy.		
1	16, Explain various types of Inflation.		
ļ.	7 Define Trade Cycle and explain its features and types.		
18	(OR) Explain Consumption Function.		

(P.T.O)

SECTION-C

Case Study Compulsory

1X15

19. Maruthi Udyog Limited is a classic example of monopoly in spare parts, ser repairs, etc. Along with its authorised dealers, the MUL is looking the Maruthi users.

Often one has to change the clutch plate twice in six months and pay ₹ 3,567. M Udyog charges the price of clutch at imported cost while clutch plate is actually m Clutch Auto Pvt. Ltd. at Faridabad.

The replacement of silencer costs ₹ 800. The costs of spare parts and repairs reckoning is three to four times compared to Ambassador or Fiat.

A random sample indicates that every eighth car has faulty clutch. In the condefective parts and exorbitant cost of repairs, saving in fuel in Maruthi as compared other makes is of little consequence.

Maruthi vechicle users are in a dilemma. They cannot get spare parts or get their repaired expect through Maruthi Udyog or through its authorised dealers. But both a fantastic amounts and do not give guarantee even for a day. Maruthi Udyog is thus a to the genuine grievances of its customers.

Questions:-

- (1) Define a monopoly. State the monopoly features of Maruthi.
- (2) In what ways does a customer of Maruthi suffer it's monopoly activities, give an example.
- (3) Does Marithi enjoy monopoly in car manufacture? Explain.

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|     | Room No:                                               |                       | Regd No:             |         |
|-----|--------------------------------------------------------|-----------------------|----------------------|---------|
| 5   | KAKARAPARTI BHAVANARAYANA COLLI                        |                       | omous)               |         |
| 1   | PG I - SEMESTER END EXAMI                              |                       |                      |         |
|     | Class : I MBA                                          | Max Marks             |                      |         |
| Ve  | Subject : Management                                   | Pass Mark             |                      |         |
|     | Title of Paper: Business Environment And Business Laws | Duration              | : 3 Hrs              | 12.PM   |
| Va. | Paper Code : R22MBA103<br>W.E.F : 2022-23              | Time                  | : 9am to             | 1-2     |
| lad | W.E.F : 2022-23                                        | Date                  | . 01/03              | 2023    |
|     | SECTION-A                                              | •                     |                      | 4-00M   |
| h.  | . Answer any FIVE of the following Questions           |                       |                      | 5X4=20M |
| V   | 1. Explain the Scope of Business Environment           |                       |                      |         |
|     | L. Displacement                                        |                       |                      |         |
| 1te | 2. NITI Aayog                                          |                       |                      |         |
| ar  |                                                        | 71.40                 |                      |         |
| -   | 3. Technological Environment                           |                       |                      |         |
| eir |                                                        |                       |                      |         |
| C   | 4. Discharge of Contract                               |                       |                      |         |
| C   |                                                        |                       |                      |         |
|     | 5. Consumer Protection Act                             | Carried Contract      | · 4 - 15 1           |         |
|     |                                                        | and the second second |                      |         |
|     | 5. Sales of Goods Act                                  |                       | are disagraph        |         |
| -   |                                                        |                       |                      |         |
| n   | 7. Environmental Scanning                              |                       |                      |         |
| ,   | tau mu projekti nem samieti ili im sette               |                       | and 180 min          |         |
| -   | II. Answer the following Questions                     |                       |                      | 5X8=40M |
| 200 |                                                        | 12. 1 gardina of      |                      |         |
|     | 8. Explain the Porter's five force Model.              | all to more           | 54.1.3 × 5 m 3 111 m | 9.5     |
|     | 9. Explain the various types of Business Environment   |                       |                      | e er er |
|     |                                                        |                       |                      |         |
|     | 10. Explain about functions of Stock Exchange.         |                       |                      |         |
|     | 11. Explain 1. Monetary Policy 2. Fiscal Policy        |                       |                      |         |
|     |                                                        | M                     |                      |         |
|     | 12. Explain the Issues and Challenges of Technology    | wanagement            |                      |         |
|     | 13. Explain the Social Objectives of Business.         |                       |                      |         |
|     | 14. Define Contract. Explain the Valid contract and it | s essential E         | lements.             |         |
|     | (OF)                                                   |                       |                      |         |
|     | 15. Explain the Creation and Termination of Agency.    |                       |                      |         |
|     | 16. Explain the Competition Act 2002.                  |                       |                      |         |
|     | 17. Explain the Negotiable Instruments Act 1881.       |                       |                      |         |
|     |                                                        |                       |                      |         |
|     |                                                        |                       |                      | [P.T.O] |
|     |                                                        |                       |                      |         |

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# III. Answer the following Questions

- 18. PQR Enterprises is a startup that provides digital marketing services to small businesses. The company has a turnover of Rs. 30 lakhs per annum and is registe under the Goods and Services Tax (GST) Act.
- In 2022, the company was audited by the GST department, which found that PQR Enterprises had not been complying with several provisions of the GST Act. Specific the department found that:
- 1. The company had not been filing GST returns on time. As per the GST Act, busines must file returns on a monthly or quarterly basis, depending on their turnover
- 2. The company had not been charging the correct GST rate on its sales. The GST Act a complex tax rate structure with multiple tax rates for different types of goods and services.
- 3. The company had not been claiming input tax credit (ITC) correctly. ITC is a mechanthat allows businesses to claim can take to ensure GST compliance and avoid penalt As a result of these violations, the GST department-imposed penalties and interest on PQR Enterprises. The company was also required to pay back the incorrect ITC claimed and rectify its GST returns.

#### Questions:

- 1. Discuss the GST rate structure and the different tax rates applicable to goods and services.
- 2. Analyze the case study of PQR Enterprises and identify the GST compliance issues.
- 3. Discuss the measures that businesses can take to ensure GST compliance and avoid penalties.

| and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Selamina in the                                                   |                         |                     |                                                       |
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| egd.N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | lo:<br>KA | KARAPATI BAVANARAYA                                               | ANA COLLEGE (           | Room N              | o:<br>S) :: PG                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | ISEMES                                                            | TER END EXAM            | NATION              | 5)                                                    |
| Subjective | of the    | anagement Paper: BUSSINESS ANALYTICS FOR de: R20MBA103 / MBA10316 | MANAGERIAL DECISIO      | Pass Ma             | 17ks: 70M<br>17ks: 28M<br>11c: 12023<br>11co to 12:00 |
| 11.13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | •         |                                                                   | SECTION-A               |                     |                                                       |
| 1. A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Answe     | er any FIVE of the following que                                  |                         | 5                   | X3=15 M                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.        | Explain importance of business an                                 | alytics.                | •                   |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.        | Explain the Cramer's rule?                                        |                         |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.        | Explain the properties of Poisson of                              | distribution            |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4         | Types of Research                                                 |                         |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.        | Chi-Square test                                                   |                         |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.        | Factor analysis                                                   |                         |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.        | Types of analytics                                                |                         |                     |                                                       |
| II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | . Ans     | wer following questions                                           | SECTION-B               | *)                  | 5X9=45 M                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S.        | Define Business Analytics. Discus                                 | ss the scope and import | ance of Business An | alytics.                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                   | (OR)                    |                     |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | G.        | . Define the analytical approaches                                | for decision making its | suitable examples   |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11-       | Solve the system of equations by t                                | he matrix inversion me  | thod                |                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 3x + 2y + 4z = 7; $2x + y + z =$                                  | = 7; x + 3y + 5z = 2    |                     |                                                       |

(04)

(05)

(OR)

(ac)

Do' these data support the assumption of a population mean LQ, of 100? Find a 95%

Discuss Web and Social Media Analytics. Explain their role in marketing

Briefly describe the different steps involved in research process.

State and prove Bayes' theorem

Explain various components of Time - series

Define Cluster Analysis. Explain Clustering methods

Random sample of 10 boys had the following I.Q.'s:

100, 70, 120, 110, 101, 88, 83, 95, 98, 107,

Confidence limits.

Define and explain Financial and Risk Analysis.

#### SECTION-C

#### (8) Case study

1X10=10N

A random samples of 400 men and 600 women were asked whether they would like to have a near their residence. 200 men and 325 women were in favour of the proposal. Test the hypoth proportions of men and women in favour of the proposal, are same against that they are not, at 5% less than the same against that they are not, at 5% less than the same against that they are not, at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that the same against that they are not at 5% less than the same against that they are not at 5% less than the same against that they are not at 5% less than the same against t

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG I - SEMESTER END EXAMINATIONS : I MBA Max Marks: 70 Class : Management Pass Mark: 28 Subject Title of Paper: Financial Reporting And Analysis : 3 Hrs Duration gam to 12pm Paper Code : R22MBA104 Time : 2022-23 Date W.E.F SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Objectives of Financial Reporting 2. Auditors Report 3. Basic accounting concept 1. Users of Financial statement analysis 5. C-V-P analysis technique 5. Cash flow statement 7. IFRS 3. Nature of ratio analysis SECTION-B 5X8=40M II. Answer ALL the following Questions 9. Discuss the benefits and limitations of financial reporting. (OR) 10. Explain the elements of Financial Statements 11. Briefly explain the different types of disclosures under companies Act - 2013 (OR) 12. Describe the different categories of disclosures under listing agreement. 13. Discuss the advantages and disadvantages of financial statements. 14. From the following Trial balance of Sri Ram & sons, prepare the Trading and Profit and loss account for the year ended 31st march, 2012

[P.T.O]

|                                    | Debit (Rs.) | Credit (Rs. |
|------------------------------------|-------------|-------------|
| Particulars                        | Debit (Rs.) | 29,000      |
| Ram's Capital                      | 760         |             |
| Ram's Drawings                     |             | 15,000      |
| Purchase And Sales                 | 8,900       | 450         |
| Sale And Purchase Returns          | 280         |             |
| Stock (1-4-2011)                   | 1,200       |             |
| Wages                              | 800         |             |
| Building                           | 22,000      |             |
| Freight and Carriage               | 2,000       |             |
| Advertisement                      | 240         | 350         |
| Interest                           |             |             |
| Taxes and insurance                | 130         | 1,200       |
| Debtors and Creditors              | 6,500       | 700         |
| Bills Receivable and bills payable | 1,500       | 700         |
| Cash at bank                       | 1,200       |             |
|                                    | 190         |             |
| Cash in hand                       | 800         | 46 700      |
| Salaries                           | 46,700      | 46,700      |

Adjustments:

15. Describe the purpose and significance of preparing cash flow and funds flow statements

(OR)

16. Prepare cash flow statement from the following

|                   |          | 2215     | Assets    | 2016     | 2017     |
|-------------------|----------|----------|-----------|----------|----------|
| Liabilities       | 2016     | 2017     |           | 2,00,000 | 1,90,000 |
| Share capital     | 2,00,000 | 2,50,000 |           | 1,50,000 | 1,69,000 |
| General Reserve   | 50,000   | 60,000   | Machinery | 1,00,000 | 74,000   |
|                   | 30,500   | 30,600   | Stock     | 80,000   | 64,200   |
| P&L A/c           | 70,000   |          | Debtors   | 500      | 600      |
| Term Loan         | 1,50,000 | 1,35,200 | Cash      | 300      | 8,000    |
| Creditors         | 30,000   | 35,000   | Bank      |          |          |
| Provision for Tax | 30,000   |          | Goodwill  | -        | 5,000    |
|                   | 5,30,500 | 5,10,800 |           | 5,30,500 | 5,10,800 |
| •                 | 5,30,300 | -,,-     |           |          |          |

In 2017 dividend of Rs. 23,000 was paid, machinery of book value 3,000 was sold for Rs. 2,800. Depreciation on machinery Rs.12,000. Income tax provided during 2017 Rs.3.

17. Discuss the advantages and limitations of Ratio Analysis

(OR)

18. Balance sheet of XYZ Ltd., as on 31st Dec.2013

[Continued to Next

i) Stock on 31st march, 2012 was valued at Rs.1,500.

| Liabilities              | Amount   | Assets               | Amount   |
|--------------------------|----------|----------------------|----------|
| Preserence share capital | 1,50,000 | Goodwill             | 20,000   |
| Equity share capital     | 2,50,000 | Land and Buildings   | 2,50,000 |
| General Reserve          | 20,000   | Machinery            | 1,75,000 |
| Profit and Loss A/c      | 15,000   | Furniture            | 10,000   |
| 5% Debentures            | 1,00,000 | Stocks               | 90,000   |
| Sundry Creditors         | 28,000   | Debtors              | 21,000   |
| Bills Payable            | 12,000   | Cash at bank         | 5,000    |
|                          |          | Preliminary Expenses | 4,000    |
|                          | 5,75,000 |                      | 5,75,000 |

comment on the liquidity and solvency position of the company with suitable ratios at least 8 ratios).

SECTION-C

Case study (Compulsory)

1X10=10M

9. From the following balance sheets prepare a funds flow statement of Mr. Raju Ltd.,

|               | 31.12.2015 | 31.12.2016 | Assets      | 31.12.2015 | 31.12.2016 |
|---------------|------------|------------|-------------|------------|------------|
| Liabilities   |            |            |             | 30,000     | 25,000     |
| share capital | 60,000     | 65,000     | Patents     |            | == 000     |
| P & L A/c     | 34,000     | 26,000     | Plant       | 60,000     |            |
| Creditors     | 10,000     | -          | Cash        | 2,000      | 7,000      |
| Cicuitors     |            |            |             |            | 2 200      |
| 7 11-         | 2,000      | 3,000      | Debtors     | 10,000     | 3,000      |
| Bills Payable | 2,000      | 0,000      | Receivables | 4,000      | 9,000      |
|               | 1.06.000   | 94,000     | Receivables | 1,06,000   | 94,000     |
|               | 1,06,000   | 94,000     |             |            | . 0016 oth |

i) Depreciation of Rs. 30,000 on plant was charged to profit and loss A/c in 2016 another plant for Rs. 25,000 was purchased during the year.

ii) Dividend Rs. 13,000 Were paid during 2006.

iii) Patents with Rs. 15,000 were sold for Rs. 20,000

| ROUM           |                                       |                       |                 |
|----------------|---------------------------------------|-----------------------|-----------------|
| Room. No:      | : I MBA                               | Regd. No              | o:              |
| Class          |                                       | IINATION              |                 |
| anhiect        | : Commerce                            | Max Marks             |                 |
| mile of paper  | : Managerial Communication            | Pass Mark             |                 |
| Subject Code   | . MBA 10418 1R20MBALCA                | Duration              | :3 Hrs          |
| W.E.F          | : 2018-19                             | Time                  | : 9am to 12p    |
|                | SECTION-A                             | Date                  | : 03 03 2.02    |
| FIX            |                                       |                       |                 |
| Answer any Fiv | E of the following                    |                       | 5X3 = 15M       |
| . Write a sho  | ort note on.                          |                       | •               |
| 1. Importa     | nce of Communication in Business O    |                       |                 |
| Group l        | Discussion.                           | rganisation.          |                 |
| 3 Present      | ation Skills.                         |                       |                 |
|                | onserence.                            |                       |                 |
| 3 Principl     | es of non verbal Communication.       |                       |                 |
| : Busines      | ss Messages.                          |                       |                 |
| 7. Blogs.      |                                       |                       |                 |
| g, Commu       | inication in Conflict Resolution.     |                       |                 |
|                | SECTION-E                             | 3                     |                 |
| Answer ALL of  |                                       |                       | 5X8 = 40M       |
| P. Define C    | communication and explain the classif | fication of Commun    | ication.        |
| 72             | (OR)                                  |                       |                 |
| (Ce Explain    | the Communication structure in an o   | organization          |                 |
|                |                                       |                       | c 1 1           |
| 772            | ral Communication and list out the P  | rinciples of Success  | siul oral       |
| Commu          | nication.                             |                       |                 |
| 14.            | (OR)                                  |                       |                 |
| U. Explain     | the models for understanding interpe  | rsonal Communica      | tion .          |
| 3. What is     | Managerial Writing and explain the Se | even C's of effective | Written         |
| 3350 m         | nication.                             |                       |                 |
| Comma          |                                       |                       |                 |
| 187 L          | (OR)                                  |                       |                 |
|                | the structure of business reports and |                       |                 |
| (So What is N  | legotiation? How Communication take   | es place in the proce | ess of          |
| Negotiatio     | on?                                   |                       |                 |
|                | (OR)                                  |                       |                 |
| 162 Explain th | e Advanced Visual support for Manage  | er's during present:  | ation           |
|                |                                       |                       |                 |
| 1047           | ay Communication takes place in an I  | interview and Give s  | some techniques |
| of Interview   | S.                                    |                       |                 |
| 187            | (OR)                                  | •                     |                 |
| 18. Explain    | briefly about Technology enabled Com  | nmunication.          | P.T.O           |
| •              |                                       |                       |                 |

O. John is a 27 year old who is a food service Manager at a casual dining resta John is responsible for supervising and managing all employees in the back house. Employees working in the back of the house range in age from 16-55 old. In addition the employee come from diverse cultural and ethnic background For many English is not their Primary Language.

John is SerrSafe R certified and tries his best to keep up with food issues in the Kitchen but he admits its not easy. Employees receive "On t training" about food safety basics. But with high turnover of employees, train often rushed and some new employees are put right into the job without tra The owners of the restaurant are supportive to the John in his food safety because if food safety outbreaks it leads to them out of business. Still the o note there are additional costs for training and making sure food is handled sa

One day John comes to work and is rather upset even before he steps in restaurant. Things haven't been going well at home. He then realizes and some relative actions for improving the things done effectively like hair cut, hand scrubbing, preserving the food in an appropriate temperatures. Even the he tells to the employees no employee is doing things in a right manner. Jo frustrated and doesn't know what to do.

John has taken many efforts to get employees be safe and how they h food. All employees are given a thermometer when they start so that they temperature food. Hand Sinks, Soaps, Paper towels are available. So that the encouraged to wash their hands frequently.

#### Questions:

- What are the Communication challenges and barriers John faces? i) ii)
- What are some ways John might use effective Communication as a motive for employees to follow safe food handling practices.

Regd No: toom No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

PG I - SEMESTER END EXAMINATIONS

Max Marks: 70 : I MBA Pass Mark : 28 Class : Management

Subject
Subjec : 3 Hrs Subject Duration

9 am to 12 pm Time Paper Code 2023 06 03 Date : 2022-23

W.E.F

SECTION-A

5X4=20M

Answer any FIVE of the following Questions

Types of Data

. Different kinds of analytical tools

. Rank of a Matrix

. Conditional Probability

. Normal distribution

. Factor Analysis

. Types of Research

. Formulation of hypothesis.

#### SECTION-B

5X8=40M

Answer ALL the following Questions

Define Business Analytics. Discuss scope and importance of business analytics in management science.

(OR)

- 0. Describe the types of Analytics tools. How do you identify problems and opportunities through data analytics.
- 1. Solve the following system of equations by using Cramer's rule method x + y + z = 6, 2x + 3y - z = 5, 6x - 2y - 3z = -7. (OR)
- 2. Solve the following equations by using Gauss elimination method  $5x_1 + 6x_2 = 7$ ,  $3x_1 + 4x_2 = 5$ .
- 3. What is a measures of central tendency? Explain various measures of central tendency.

(OR)

- 4. State and prove Bayes' theorem.
- 5. What is the difference between Correlation and Regression Analysis.

(OR)

6. Obtain the two regression equations from the following data

| .,,, |   |   |    |    | -  | 1  | 7  | 0  | 9  |
|------|---|---|----|----|----|----|----|----|----|
| X    | 1 | 2 | 3  | 4  | 5  | 6  | /  |    |    |
| 37   | 0 | Q | 10 | 12 | 11 | 13 | 14 | 16 | 15 |
| Y    | 9 | 0 | 10 | 1- |    |    |    |    |    |

[P.T.O]

17. Briefly describe the different steps involved in a research process.

SWOLLY THE EARLY BLANCE - 10

18. Two samples polls of votes for two candidates A & B for a public office are taken, from among the residents of rural areas. The results are given in adjoining table. Examine whether the nature of the area is related to voting preference in this elec

| Area  | Vote | for | Total   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------|-----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | A    | В   | 1-140.4 | The state of the s |
| Rural | 620  | 380 | 1000    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Urban | 550  | 450 | 1000    | ricol facts facts in the control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Total | 1170 | 830 | 2000    | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

SECTION-C

Destinate ships alternated greate of amoltaness bear large pringether of its

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III. Case Study (Compulsory)

19. The following data give the yields on 12 plots of land in samples, each of 4 plots u three varieties of fertilizers A,B & C.

| A  | В  | C  |
|----|----|----|
| 25 | 20 | 24 |
| 22 | 17 | 26 |
| 24 | 16 | 30 |
| 21 | 19 | 20 |

Is there any significant difference in the average yields of land under the three varieties fertilizers? 1200 recidentering bits entredong through negoligwold block entreless. To setting

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and the second of the second o

| egd No: TAKARAPARTI BHAWANADA               | Room No:                                                 |
|---------------------------------------------|----------------------------------------------------------|
| PG: I SEMESTE                               | AYANA COLLEGE (AUTONOMOUS) R END EXAMINATIONS            |
| MRA                                         | Max. Marks: 70M                                          |
| MANAGENIENI                                 | Pass Marks: 28M                                          |
| the Paper. I Sitt I NOTE WENT               | FOR BUSINESS Duration: 3Hrs                              |
| aper Code: R20MBA105/MBA10518               |                                                          |
| A.E.F: 2017-18                              | Date: 06 03 2023                                         |
|                                             | ECTION - A                                               |
| Answer any FIVE of the following questions. | $5 \times 3 = 15 \text{ M}$                              |
| Write sort notes on:                        |                                                          |
| 1. Write Sorver                             | 2) Difference between Agreement and Contract             |
| D: Coronges between LLP and Partnership     |                                                          |
| Explain the features of Competition Act     |                                                          |
| 5. Objectives of IT Act                     | S. Consumer Redressal Agencies                           |
|                                             |                                                          |
|                                             | $\frac{\text{CCTION - B}}{5 \text{ X 8} = 40 \text{ M}}$ |
| Answer ALL Questions                        |                                                          |
| Q. Explain briefly the law relating to Car  |                                                          |
|                                             | (OR)                                                     |
| Discuss the Essentials of a Valid Cont      | ract?                                                    |
| Explain briefly about LLP Act. 2008?        | Conversion of LLP and liability of LLP?                  |
|                                             | (OR)                                                     |
| Explain in detail about winding up and      | A amount to Sell                                         |
| Write the difference between Sale and       | (OR)                                                     |
| . A 2 E                                     | Explain the process of discharging the Negotiable        |
| (4. What is negotiable Instruments Act? I   | explain the process                                      |
| Instruments.                                | . 2013                                                   |
| Write briefly about the Companies Act       | (OR)                                                     |
|                                             |                                                          |
| Write about the Memorandum of Associ        | Clation and Anti-Cree of                                 |
| Explain briefly about IT Act. 2000          | (OR)                                                     |
| i alste a                                   | and suggestion the ways and means to legally protect the |
|                                             | ing suggestion the majo and means to regard protection   |
| rights of the consumer.                     |                                                          |
|                                             |                                                          |

.

#### SECTION-C

#### 19. Case Study

 $1 \times 15 = 15 \text{ M}$ 

The Carbolic Smoke Ball Co. offered by advertisement reward of £ 100 to any person should contract "Influenza" (disease) after having used the smoke ball three time daily for two was according to the printed directions. It also added that £ 1,000 was deposited in the bank showing sincerity in the promise. The plaintiff Mrs. Carlill used the smoke ball according of the directions to company but contracted "Influenza". The plaintiff sued the defendant for the reward. Can Mrs. Colaim? Will she succeed?

Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG I - SEMESTER END EXAMINATIONS : I MBA /MCA Class Max Marks: 70 : Management Subject Title of Paper: Personality Development Through Pass Mark: 28 Life Enlightenment Skills : R22MCA105/R22MBA107 Duration : 3 Hrs Paper Code : 9am to 12pm Time : 2022-23 V.E.F 10 03 2023 Date SECTION-A Answer ALL Questions 5X14=70M . Define Personality? Explain the different Dimensions of Personality. (OR) . Write an essay on "SWOT Analysis". . Elaborate the concept of Attitude? Explain the different types of attitudes. (OR) . What do you mean by Motivation? Illustrate the definition and nature of motivation. Discuss various qualities of a successful leader. (OR) . What are the different dimensions of emotional Intelligence? Explain about Holistic Development of Personality verses? (OR) Discuss about "Bhagavad Gita" in the real world. Explain the historical perspective of Yoga in detail? (OR) 3. Define Stress and explain the different types of stress.

| om. No:                                   | T CENTECHED TO                                                |             | Regd. No: _                             |         |
|-------------------------------------------|---------------------------------------------------------------|-------------|-----------------------------------------|---------|
| 0112                                      | I SEMESTER END EXAMIN                                         | ATION       |                                         |         |
| ass<br>tle of pape<br>per Code<br>tration | : I MBA : Business Environment : MBA 10718 /R20MBAIDT : 3 Hrs |             | arks: 70<br>arks: 28<br>: Tam<br>: 10 0 | to 12pm |
|                                           |                                                               |             |                                         |         |
|                                           | SECTION-A $(5 \times 3 = 15 \text{ Mark})$                    | (2)         |                                         |         |
|                                           | Answer any three of the following que                         | estions     |                                         |         |
|                                           | SEZs                                                          | cstions     |                                         |         |
| 7                                         | Fiscal Policy                                                 |             |                                         |         |
| 2                                         | EXIM Bank                                                     |             |                                         |         |
| 3                                         | Public Sector                                                 |             |                                         |         |
| 5.                                        | MNCs                                                          |             |                                         |         |
|                                           | BIFR                                                          |             |                                         |         |
| 7.                                        | Mixed Economy                                                 |             |                                         | F 12    |
|                                           | Privatization                                                 |             |                                         |         |
| 8.                                        | SECTION -B $(5 \times 8 = 40 \text{ M})$                      | (arks)      |                                         |         |
| Marin Ton                                 | Answer all of the following qu                                |             |                                         |         |
| 0.                                        | Explain the concept of Business Environment. He               | ow econom   | ic environmer                           | nt      |
| 9:.                                       | can influence business?                                       |             |                                         |         |
|                                           | (or)                                                          |             |                                         |         |
| 10.                                       | Describe the concept of Social Responsibility                 | of Busines  | ss. Explain th                          | e       |
| 100                                       | Social Responsibility of Business towards custom              | ers and em  | ployees.                                |         |
| 11-                                       | Describe the structural dimensions of Indian                  | Economy     | y? Distinguis                           | n       |
| 1187                                      | between Private Sector and Public Sector.                     |             |                                         |         |
|                                           | (or)                                                          |             | Tilana Who                              | •       |
| 12-                                       | Illustrate Small-scale Industries, identify the rea           | asons for S | sickness. Wha                           | ıı      |
|                                           | should be done to promote Small-scale Industries              | ?           |                                         |         |
| 13 .                                      | Trace the Industrial Policy Resolutions and state             | ments! Dis  | cuss the rutur                          |         |
| a second                                  | directions?                                                   |             |                                         |         |
|                                           | (or)                                                          | raign Dira  | ct Investments                          |         |
| 14                                        | Critically examine the rational for encouraging For           | neigh Dhe   | et mvestments                           |         |
|                                           | What is the need for foreign capital in Indian Econ           | Discuss a   | bout the recen                          | t       |
| 15.                                       | What are the components of Balance of Payments                | . Discuss a | Jour the recen                          | 1       |

Trends in India's BOP position.

(or) .

What are the objectives of the New EXIM Policy.

- 17. Discuss the recent economic policy of the government. What more is to be done to achieve faster economic development in the country?
- What is the importance of Corporate Governance?

### SECTION - C (15 Marks)

#### 19. Case Study:

The public sector Indian Oil Corporation (IOC), the major oil refining and marketing company which was also the canalizing agency for oil imports and the only Indian company in the Fortune 500, in terms of sales, planned to make a foray in to the foreign market by acquiring a substantial stake in the Balal Oil field in Iran of the Premier Oil. The project was established to have recoverable oil reserves of about 11 million tonnes and IOC was supposed to get nearly four million tonnes.

When IOC started talking to the Iranian company for the acquisition in October 1998, oil prices were at rock bottom (\$ 11 per barrel) and most refining companies were closing shop due to falling margins. Indeed, a number of good oil properties in the Middle East were up for sale. Using this opportunity, several developing countries "made a killing by acquiring oil equities abroad".

IOC needed Government's permission to invest abroad. Application by Indian company for investing abroad is to be scrutinized by a special committee represented by the Reserve Bank of India and the finance and commerce ministries. By the time the government gave the clearance for the acquisition in December 1999 (i.e., more than a year after the application was made), the prices had bounced back to \$ 24 per barrel. And the Elf of France had virtually took away the deal from under IOCs nose by acquiring the Premier Oil.

The RBI, which gave IOC the approval for \$ 15 million investment, took more than a year for clearing the deal because the structure for such investments were not in place, it was reported.

#### Questions:

- a) Discuss internal, domestic and global environment of business revealed by this case.
- b) Discuss whether it is the domestic or global environment that hinders the globalization of Indian business.

| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                           |                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------|
| Regd No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Room I                                                                    | Yo:                                                 |
| KAKARAPARTI BHAVANARAYANA COL<br>I SEMESTER END EXAMI                                                                                                                                                                                                                                                                                                                                                                                                                                              | LEGE (AUTONOMO)<br>NATIONS                                                | US)                                                 |
| : I MBA  abject : Management tle of Paper: Managerial Communication per Code : R22MBA106 E.F : 2022-23                                                                                                                                                                                                                                                                                                                                                                                             | Max Marks Pass Mark Duration Paper Time Date                              | :70<br>:28<br>:3 Hrs<br>: 9am to 12P<br>: 13 03 202 |
| SECTION - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |                                                     |
| answer any FIVE Of the following questions.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           | 5X4=20M                                             |
| Communication Process                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                     |
| E-Mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |                                                     |
| Listening Skills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                     |
| External Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                                                         |                                                     |
| Rapport Building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                     |
| Body Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |                                                     |
| Negotiation Skills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                     |
| Section - B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           | •                                                   |
| . Answer ALL the following Questions                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           | 5X8=40M                                             |
| Define Communication? Explain the barriers of Cornication importance of Communication in the Work Explain the presentation skills in Oral Communication?  Write about Written Communication? Explain the 7C's of effective Written Communication?  Write about how to improving Listening & reading Write about the types & channels of Internal Oral (OR)  Explain the types & channels of External Organ Write about JOWHARI WINDOW Theory?  (OR)  What are the effective elements of a good CV? | rkplace?<br>lication?<br>ation?<br>ng Body language?<br>ganizational Comm |                                                     |
| SECTION - C<br>CASE STUDY ( COMPU<br>Answer the following question                                                                                                                                                                                                                                                                                                                                                                                                                                 | JLSORY)                                                                   | 1x10=10M                                            |
| Bruce, a research chemist for a major petro – che<br>ort about some new compounds he had synthes                                                                                                                                                                                                                                                                                                                                                                                                   | emical company, wr<br>sized in the laborate                               | ote a dense<br>ory from oil-<br>PTO                 |

refining by products. The bulk of the report consisted of tables of tables listing chemical and physical properties, diagrams of their molecular structure, the formulas and data from toxicity tests. Buried at the end of the report was a conspeculation that one of the compounds might be a particularly safe and effect insecticide.

Seven years later, the same oil company launched an research program to find more effective but environmental safe insecticides, six months of research, someone uncovered Bruce's report and his toxicity to few hours of further testing confirmed that one of Bruce's compounds was the economical insecticide they had been looking for.

Bruce had since left the company, because he left the

importance of his research was not being appreciated.

1. SWOT Analysis on Bruce.

| 2d.No:                                        |                   | Room No:                       |
|-----------------------------------------------|-------------------|--------------------------------|
| KAKARAPATI BAVANARAYANA C                     | OLLEGE (AUTON     | NOMOUS) :: PG                  |
| ISEMESTER                                     | END EXAMNATION    | ON                             |
| lass: I MBA                                   |                   | Max.Marks: 70M                 |
| ubject: MANAGEMENT                            |                   | Pass Marks: 28M                |
| itle of the Paper: FINANCIAL STATEMENTS ANALY | SIS AND REPORTING | Duration: 3Hrs Date: 43/05/20. |
| /.E.F: 2020-21                                |                   | Time: gam to 12                |
| <u>SE</u>                                     | CTION-A           |                                |
| . Answer any FIVE of the following Questions. |                   | 5X3=15M                        |
| 1. Branches of Accounting.                    | 5 Trail Bal       | ance                           |
| Funds Flow Statement                          | 4. Cash Flor      | w Statement                    |
| r. Forfeiture of Shares                       | & Debenture       | es                             |
| IFRS .                                        | 5- Marginal       | Costing                        |
| SE.                                           | CTION-B           |                                |
| I. Answer the following Questions.            |                   | 5X8=40 M                       |
| q. Explain the Generally Accepted Account     |                   |                                |
|                                               | (OR)              | Tange Control of the Control   |
| 10. Journalise the following Transactions     |                   | man and the second second      |
|                                               |                   | Rs.                            |
| 2015 June 1 Raju Started Business with        |                   | 50,000                         |

2015 June 1 Raju Started Business with 50,000
2 Paid into Bank 40,000
4 Bought goods for cash 10,000
12 Sold goods for cash 20,000
17 Purchased Furniture from Vijay 5,000
18 Sold good s to Ganesh 10,000
19 Withdraw from the Bank for personal use 5,000
31 Salaries paid 10,000

11. What are the various techniques of Financial Statement Analysis?

(OR)

12- From the following Balance Sheet of a Firm, prepare Funds Flow Statement.

| Liabilities  Share capital General reserve P&L Account Debentures Creditors Bills Payable Provision for tax | 2012<br>(Rs.)<br>1,20,000<br>25,000<br>18,000<br>80,000<br>40,000<br>27,000<br>25,000 | 2013<br>(Rs.)<br>1,50,000<br>28,000<br>32,000<br>60,000<br>46.000<br>20,000<br>34,000 | Assets  Goodwill Plant & Machinery Investments Stock Debtors Bills receivable Cash Preliminary expenses | 2012<br>(Rs.) | 2013<br>(Rs.)<br>6.000<br>1,20.000<br>62,000<br>38.000<br>82,000 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------|
|                                                                                                             | 3,35,000                                                                              | 3.70.000                                                                              | the fact of the same of the same of                                                                     | 3,35.000      | 3,70.000                                                         |

- a) Depreciation provided on machinery during the year Rs.25,000
- b) Interim dividend paid Rs. 15.000
- 13. Explain the Accounting Procedures for Declaring and Distributing Dividends.
- ABC Ltd., issued 50,000 equity shares of Rs.10 each, payable Rs.2 on application, allotment, Rs.2 on first call, Rs. 2 on second call and Rs.2 on final call. All the share subscribed and the amount duly received. Pass necessary Journal entries in the book Company.
- Explain the legal requirements relating to Auditing
- (OR) Explain the legal requirements relating to Accounting Disclosures.
- The sales and profit during the years were as follows.

| es and pron | t during the years we | re as follows. |
|-------------|-----------------------|----------------|
| Year        | Sales                 | Profit         |
|             | (Rs.)                 | (Rs.)          |
| 2014        | 2,40,000              | 30,000         |
| 2015        | 2,70,000              | 42,000         |

You are required to calculate:

- P/V Ratio
- BEP
- Profit when sales are Rs.1,50,00.
- The sales required to earn a profit of Rs.57,000

(OR)

15= Explain Cost - Profit - Volume analysis

#### SECTION -C

# Ill. Answer the following Question

1X 15= 15 M

| 10 | . Following is the | Trial Balance of | shukla as on | 31-12-2016 |
|----|--------------------|------------------|--------------|------------|
|----|--------------------|------------------|--------------|------------|

| Particulars           | Dr       | Cr       |
|-----------------------|----------|----------|
|                       | · Rs.    | Rs.      |
| Capital and Drawings  | 10,000   | 90,000   |
| Purchases and sales   | 21.900   | 51.800   |
| Returns               | 800      | 500      |
| Debtors and Creditors | 16,100   | 30,000   |
| Discount              | 1.000    | 2,200    |
| Opening Stock         | 12.000   |          |
| Wages                 | 1.840    |          |
| Furniture             | 2,560    |          |
| Motor Car             | 24,000   |          |
| Buildings             | 60.000   |          |
| Rent & Rates          | 900 .    |          |
| Advertisements        | 1,300    |          |
| Salaries              | 8.200    |          |
| Insurance             | 3,400    |          |
| Interest              |          | 1.500    |
| Cash                  | 12.000   |          |
|                       | 1,76,000 | 1,76,000 |

#### Adjustments:

- a) Closing stock Rs.25.000
- b) Outstanding wages Rs.160
- c) Prepaid insurance Rs.400

Prepare the trading and profit and loss account and balance sheet of Shukla.

Room No:

# KAKARAPATI BAVANARAYANA COLLEGE (AUTONOMOUS) :: PG I SEMESTER END EXAMNATION

ass: 1 MCA ibject: COMPUERERSCIENCE

tle of the Paper: OPERATING SYSTEMS

ibject Code: R20MCA105

'.E.F: 2020-21

Max.Marks: 70M

Pass Marks: 28M

Duration: 3Hrs

Date: 03/03/2023
Time: 900 to 12pm

Answer ALL Questions. All Questions carry equal marks

5X14=70M

What is an operating system? Explain about Operating System Services. 1.

(OR)

- 2. 0.) What is System Call. Discuss variants of System Calls.
  - b) Explain about Memory Management and Storage Management.
- Explain Inter process communication with example. 3.

(OR)

- Explain about Multithreading. Discuss
- Define a Dead Lock? What are methods for Handling Dead Locks?

(OR)

- Explain the concepts of the following 6.
  - (i) Monitors
- (ii) Swapping
- (iii) Segmentation
- Explain about Demand paging?

(OR)

- Explain about file sharing and protection in detail 3
- Briefly explain about RAID structure in OS?

(OR)

10 . Explain about disk structure and disk scheduling in detail.

# Room No: KAKARAPATI BAVANARAYANA COLLEGE (AUTONOMOUS) :: PG I SEMESTER END EXAMNATION

ass: 1MCA

ass: 1MCA

abject: COMPUERERSCIENCE

the of the Paper: COMPUTER ORGANIZATION

the of the Paper: COMPUTER ORGANIZATION

abject Code: R20MCA106

.E.F: 2020-21

Pass Marks: 28M Duration: 3Hrs

Max.Marks: 70M

Date: 13/3/2023

Time: 61:00 AM-12 00 Noon

Answer all Questions. All Questions carry equal marks

5X14=70M

What is Flip-Flop? Explain various types of Flip-Flop?

(OR)

- Explain about Fixed point and floating point data representation.
- Describe the Mechanism of an instruction Cycle and Memory reference instructions.
   (OR)
- What is Error Detection code. Explain different binary codes with examples.
- 5. Explain variants of addressing Modes.

(OR)

- Explain about Stack Organization and Instruction formats.
- 7. Explain about Multiplication algorithm.

(OR)

- Explain about Decimal Arithmetic unit and Decimal Arithmetic Operations.
- What is Input- Output Interface? Explain about Asynchronous Data Transfer.

(OR)

/o. What is Main Memory? Explain about Cache Memory.

| toom No: _     |                                      |                                       |         |        |     | Not      |        |
|----------------|--------------------------------------|---------------------------------------|---------|--------|-----|----------|--------|
| 200111 210     | KAKARAPARTI BHAVANARAY               | AWA 00                                |         | R      | ega | No:      |        |
|                | PG I - SEMESTER I                    | ANA COLLI                             | EGE (A  | AUTO   | MON | 005)     |        |
| 1.05           | : I MCA                              | END EXAMI                             | INATI   | ONS    |     |          |        |
| lass<br>ubject | : Computer Science                   | Max Marks                             |         |        |     |          |        |
| ubject Paper   | : Operating Systems                  | Pass Mark                             |         |        |     |          |        |
| aper Code      | : R22MCA104                          | Duration                              | : 3 I   | ars    | _   | mace     |        |
| aper           | : 2022-23                            | Time                                  | : -     | tam    | 'W  | 12pm     |        |
| v.E.F          |                                      | Date                                  | •       | 03/0   | 180 | 2023     |        |
|                | Si                                   | ECTION-A                              |         |        | -   |          |        |
| Answer Al      | LL Questions                         | BOTTON-A                              |         |        |     | 5X       | 14=70N |
| Discuss O      | perating System Services. What are   | various type                          | es of C | Operat | ing | Systems. |        |
|                |                                      | · · · · · · · · · · · · · · · · · · · |         | •      |     | •        |        |
|                |                                      | (OR)                                  |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
| . What is Sy   | ystem Call? Explain various types of | System Cal                            | lls.    |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
| . What is S    | emaphores? Explain Critical Section  | Problem.                              |         |        |     |          |        |
|                | •                                    | (07)                                  |         |        |     |          |        |
|                |                                      | (OR)                                  |         |        |     |          |        |
| D.C. O. I      | Dead looks Differentiate Dead look D | -avantian as                          | nd Av   | oidano |     |          |        |
| . Denne a 1    | Dead lock? Differentiate Dead lock P | revenuon ai                           | iid Av  | Jidane |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
| Discuss d      | lemand paging and page segmentati    | on.                                   |         |        |     |          |        |
| o. Discuss d   | icinana pagnig ana page segmentati   | 011.                                  |         |        |     |          |        |
|                |                                      | (OR)                                  |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
| 6 Illustrate   | page Replacement Algorithm.          |                                       |         |        |     |          |        |
| J. Musicula    | P-8-1                                |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
| 7. Explain a   | about access methods and files shar  | ing in detail                         | 1.      |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      | (OR)                                  |         |        |     |          |        |
|                |                                      |                                       |         | •1     |     |          |        |
| 8. What is I   | Disk structure? Explain about Disk   | Scheduling                            | Algor   | ithms  | •   |          |        |
|                |                                      |                                       |         |        |     |          | pii    |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      | m 1                                   |         |        |     |          |        |
| 9. What is n   | network structure? Explain network   | Topology.                             |         |        |     |          |        |
|                |                                      | 07/2/7020/07                          |         |        |     |          |        |
|                |                                      | (OR)                                  |         |        |     |          |        |
|                |                                      |                                       | (36)    |        |     |          |        |
| 10. Explain    | review of Mobile Operating Systems   | s.                                    |         |        |     |          |        |
|                |                                      |                                       |         |        |     |          |        |
|                |                                      |                                       |         |        | *5  |          |        |
|                |                                      |                                       |         |        |     |          |        |

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| Regd No:_           |                                                            |                                         | Room             | No:                      |
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|                     | KAKARAPARTI BHAVAN                                         | AD ATTANTA                              | Room             |                          |
|                     | KAKARAPARTI BHAVANA<br>PG III SEMES                        | TER END EXAMINAT                        | (AUTONOMOI       | JS)                      |
|                     | : II M.Sc.(ACH)                                            | - CRU EXAMINAT                          | TIONS            |                          |
| Class               | : Chemistry                                                |                                         | Max Marks        | : 70                     |
| Subject Paper       | r: Spectroscopic Methods                                   |                                         | Pass Mark        | : 28                     |
| Title of Tape.      | : R20ACH302                                                |                                         | Duration         | : 3 Hrs<br>: 9am to 12pr |
| Paper Cour          | : 2020-21                                                  |                                         | Paper Time       | : 03 03 202              |
| W.E.F               |                                                            |                                         | Date             | : 05/05/20-              |
| A TOWER AL          | L the following Questions                                  | ECTION -A                               |                  | -14-70M                  |
| Answei All          | note on CMR Spectroscope                                   |                                         | . 52             | ₹14=70M                  |
| b) Write t          | note on CMR Spectroscopy                                   | with two typical exam                   | mples.           |                          |
| b) write s          | he differences and similari                                | * () - () - () - () - () - () - () - () | roton NMK.       | •                        |
| 1                   | 1                                                          | (OR)                                    |                  |                          |
| Explain C           | hemical Shift values for var                               | rious carbons in follow                 | ving compound    | ds.                      |
| a) Hetero           | Aromatic Compounds. b)                                     | Acetophenone c) N,N                     | Dimethyl Farn    | namide.                  |
| . Deduce the        | he structure of the compou                                 | nd from the spectral o                  | data given belo  | w:                       |
| Molecu              | ılar formula: C <sub>5</sub> H <sub>8</sub> O <sub>2</sub> |                                         |                  |                          |
| UV, λ m             | ax: shows no intense UV at                                 | sorption above 200 n                    | ım.              |                          |
| IR: 174             | 0 cm-1                                                     |                                         |                  |                          |
| ¹HNMR               | (δ ppm): 4.0 (2H, t); 2.20(2F                              | I, m); 2.35 (1H, m) 1.1<br>(OR)         | 15 (3H, d).      |                          |
| . Significan        | t spectral features of an org                              |                                         | iven below:      |                          |
| 10.7530             | ular formula: C <sub>8</sub> H <sub>14</sub> O             |                                         |                  |                          |
|                     | , cm <sup>-1</sup> : 3500, 3300, 2100.                     |                                         |                  |                          |
| No.                 | R, δ ppm: 1.0 (6H, d); 1.5 (such ange with $D_2O$ )        | 3H, S); 1.6 (2H, d),1.9                 | (1H, m); 2.3 (   | 1H, s);3.1 (1H,          |
|                     | δ ppm: 23, 24, 30, 50, 68,                                 | 71, 87.                                 |                  |                          |
|                     | n suitable structure to the c                              |                                         |                  |                          |
| . Discuss th        | e theory and principle of X                                | -ray Spectroscopy and                   | d explain it wit | h one                    |
| example.            |                                                            |                                         |                  |                          |
|                     |                                                            | (OR)                                    | Cnastragaan      | and umita                |
|                     | te on theory and principle of                              | i Auger Photoelectroi                   | Spectroscopy     | and write                |
| example. Discuss th | e following                                                |                                         |                  |                          |
| 1. ORD Cu           | rves 2. CD Curves 3. Cott                                  | on effect-its types wit                 | h examples.      |                          |
|                     |                                                            | (OR)                                    |                  |                          |
| . Ascertain         | and explain the various rule                               | , ,                                     | nfigurations a   | nd                       |
| conformati          | ion of Organic molecules.                                  |                                         |                  |                          |
| a) Explain          | the Principle and Instrume                                 | entation of Electron S                  | pin Resonance    | 9 1                      |
| Spectrosco          | ру.                                                        |                                         |                  |                          |
| b) g-facto          |                                                            |                                         |                  |                          |
| 0 -1 -:             |                                                            | (OR)                                    | FSP with area    | nnlas                    |
|                     | s Zero-Field splitting &, Kra                              |                                         |                  | npies.                   |
| b) Explai           | in hyperfine splitting in ESI                              | R with Three example                    | S.               |                          |

Room No:

## KAKARAPATI BAVANARAYANA COLLEGE (AUTONOMOUS) :: PG I SEMESTER END EXAMNATION

Class: 1 MCA

Subject: COMPUERERSCIENCE

Title of the Paper: PROBABILITY AND STATISTICS

Subject Code: R20MCA104

W.E.F: 2020-21

Max.Marks: 70M

Pass Marks: 28M

Duration: 3Hrs

Time: garn # 12pit

#### Answer ALL questions. All questions carry equal marks.

 $5 \times 14 = 70 \text{M}$ 

State and prove Bayes' theorem. 1.

(OR)

- Define Poisson Distribution. Mention its properties and applications.
- Explain the criteria of good estimator or best estimator.

(OR)

- Define Normal Distribution. Explain some important properties of Normal distribution and also write its applications.
- Define Correlation. Explain various methods for calculating Correlation. (OR)

| .\ | 1 | 2 | 3  | -4 | 5  | 6  | 7  | 8  | 9  |
|----|---|---|----|----|----|----|----|----|----|
| Y  | 9 | 8 | 10 | 12 | 11 | 13 | 14 | 16 | 15 |

From the above data,

- (i) Calculate the two regression equations
- (ii) Calculate the correlation co efficient
- (iii) Estimate the value of Y which should correspond on an average to x = 6.2

In a simple sample of 600 men from a certain large city A, 450 are known to be smokers. In one of 900 men from another large city B, 450 are smokers. Do the data A and B are indicate that the cities are significantly different with respect to the habit of smoking among men?

(OR)

Samples of two types of electrical bulbs were tested for length of life and the following data were obtained.

|              | Type – 1 | Type – II |
|--------------|----------|-----------|
| Sample Sizes | 8        | 7         |
| Sample Means | 1234 hrs | 1036 hrs  |
| Sample S.Ds  | 36 hrs   | 40 hrs    |

Is the difference in the means sufficient to warrant that type I is superior to type II regarding length of life.

Define time series. Explain various components of time series.

(OR)

Set up an analysis of variance table for the following two – way design results per acre production data of wheat.

| Variety of seeds |                       |                              |
|------------------|-----------------------|------------------------------|
| A                | В                     | C                            |
| 6                | 5 ,                   | 5 .                          |
| 7                | 5                     | 4                            |
| 3                | 3                     | 3                            |
| 8                | 7                     | 4                            |
|                  | A<br>6<br>7<br>3<br>8 | A B  6 5 . 7 5 . 3 3 . 8 7 . |

Also state whether variety differences are significant at 5% LOS.

| egd.No:                                                                                                                                                                                                                                                                  |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| KAKARAPATI BAVANARAVANA COL                                                                                                                                                                                                                                              | Room No:                                                           |
| KAKARAPATI BAVANARAYANA COLLEGE (AU<br>I SEMESTER END EXAMN                                                                                                                                                                                                              | TONOMOUS) :: PG                                                    |
| CAANINA                                                                                                                                                                                                                                                                  | TION                                                               |
| Class: I MCA                                                                                                                                                                                                                                                             |                                                                    |
| Subject: Computer Science                                                                                                                                                                                                                                                | Max.Marks: 70M                                                     |
| Title of the Paper: Discrete Mathematics Subject Code: R20MCA101                                                                                                                                                                                                         | Pass Marks: 28M                                                    |
| W.E.F: 2020-21                                                                                                                                                                                                                                                           | Duration: 3Hrs                                                     |
| W.E.F: 2020-21                                                                                                                                                                                                                                                           | Date: 01/03/2023                                                   |
| A swor All Questions All o                                                                                                                                                                                                                                               | Time: Sam to 12pm                                                  |
| Answer ALL Questions. All Questions Carry equal marks                                                                                                                                                                                                                    | 5 V 14 - 70M                                                       |
|                                                                                                                                                                                                                                                                          | $5 \times 14 = 70 M$                                               |
| D/ 110Ve the following without : The second                                                                                                                                                                                                                              |                                                                    |
| B) Prove the following without using Truth Tables  i) $\sim (p \lor (\sim p \land q)) \leftrightarrow \sim p \land \sim q$ ii) $\sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$                                                                              | · (7M)                                                             |
| i) $\sim (p \lor (\sim p \land q)) \leftrightarrow \sim p \land \sim q$<br>ii) $\sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$                                                                                                                              | . (7M)                                                             |
| / Without using Truth Tables                                                                                                                                                                                                                                             | (7M)                                                               |
| i) $\sim (p \lor (\sim p \land q)) \leftrightarrow \sim p \land \sim q$<br>ii) $\sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$<br>iii) $\sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$<br>(OR)                                                 |                                                                    |
| i) $\sim (p \lor (\sim p \land q)) \leftrightarrow \sim p \land \sim q$<br>ii) $\sim (p \land q) \rightarrow (\sim p \lor (\sim p \lor q))$<br>(OR)                                                                                                                      | olve the following problem (14 M!)                                 |
| <ul> <li>i) ~ (p ∨ (~p ∧ q) ) ↔ ~p ∧ ~q</li> <li>ii) ~ (p ∧ q) → (~p∨ (~p ∨q))</li> <li>(OR)</li> <li>2. Explain briefly the concept of Free of Bound Variables and s</li> <li>i) All integers are rational numbers. Some integers are power</li> </ul>                  | olve the following problem (14 N!)                                 |
| <ul> <li>i) ~ (p ∨ (~p ∧ q)) ↔ ~p ∧ ~q</li> <li>ii) ~ (p ∧ q) → (~p∨ (~p ∨q))</li> <li>(OR)</li> <li>2. Explain briefly the concept of Free of Bound Variables and s</li> <li>i) All integers are rational numbers. Some integers are powernumbers are power.</li> </ul> | olve the following problem (14 M) ers of 2.Therefore some rational |

(OR)

(14 M)

(14 M)

(14 M)

Write the equation for multinomial thermo and solve the problems

i) Find the Coefficient of a<sup>2</sup> b<sup>3</sup>c<sup>2</sup>d<sup>5</sup> in expansion of (ab+2b-3c+2d+5)<sup>16</sup>

 $a_0 = 1 \ a_1 = 0$ 

ii)  $a_n = 8a_{n-1} - 16a_{n-2}$   $a_0 = 16 a_1 = 18$ 

 $a_{n+2} - 2a_{n+1} + a_{n-2}^{n} a_0 = 2 a_1 = 1$ 

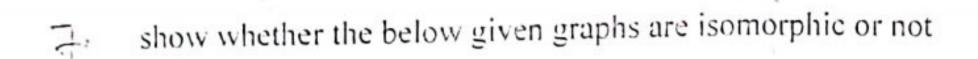
Solve the following Recurrence relations

i)  $a_n = 5a_{n-1} - 6a_{n-2}$ 

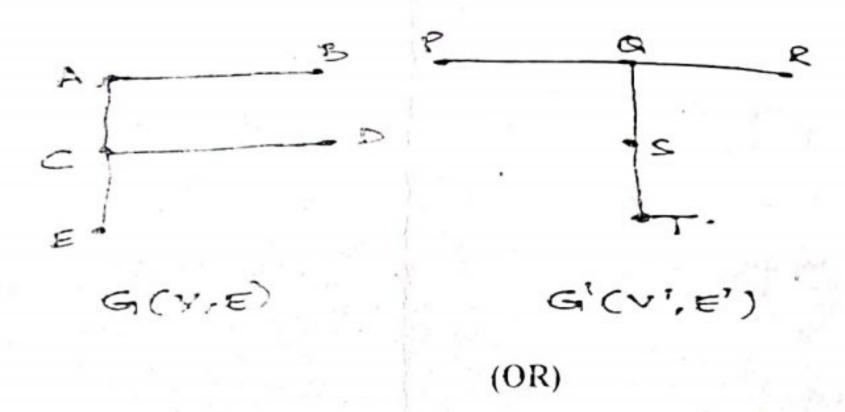
Solve by using generating function

ii) Find the Coefficient of  $x^{11}y^4$  in expansion of  $(2x^3-3xy^2+z^2)^6$ 

(OR)



(14 M)



S. Explain all pair shortest path algorithm with example

(14 M)

Justify your answer that the minimum spanning tree calculated by using Prims and Krushkals

Algorithms are same

(14 M)

(OR)

10. Explain briefly the concept of Boolean Function representation?

(14 VI)

Minimize the following Boolean expressions using Boolean identities -

- a) F(A.B.C)=(A+B)(A+C)
- b) F(A,B,C)=A'B+BC'+BC+AB'C'

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| gd No:                                                                                         |                                                                           | Room No:                          |                                                    |                  |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------|------------------|
|                                                                                                | KAKARAPARTI BHAVANARAYANA COLLEGE<br>PG: I SEMESTER END EXAMINATIO        |                                   |                                                    |                  |
| ass: N                                                                                         |                                                                           | Max.Marks: 70M Pass Marks: 28M    |                                                    |                  |
|                                                                                                | : COMPUTER APPLICATIONS                                                   |                                   |                                                    |                  |
| tle of the Paper: PROGRAMMING AND PROBLEM SOLVING USING PYT aper Code: R20MCA103  E.F: 2020-21 |                                                                           | Time: gam to 12PD                 |                                                    |                  |
|                                                                                                |                                                                           |                                   |                                                    | Date: 24/02/2023 |
|                                                                                                |                                                                           | Ansv                              | ver ALL Questions. All Questions carry equal marks | 5 X 14=70 M      |
| ١.                                                                                             | Define Python. Explain about Numeric Data types in python with exam       | nples.                            |                                                    |                  |
| 1.                                                                                             | (OR)                                                                      |                                   |                                                    |                  |
| 2.                                                                                             | What is an Operator? Explain about various Operators in Python with o     | examples.                         |                                                    |                  |
| 3                                                                                              | What is an Array? Explain about Creating an Array and Types of Array (OR) |                                   |                                                    |                  |
| 4                                                                                              | Define Function. Explain about Calling a Function and Functions with      | /without return values in detail. |                                                    |                  |
| _                                                                                              | Explain the concept of Inheritance in Python with examples.               |                                   |                                                    |                  |
| 2                                                                                              | (OR)                                                                      | t til susmila                     |                                                    |                  |
| 6-                                                                                             | What is an Abstract Class? Explain about the concept of interfaces in P   | ython with an example.            |                                                    |                  |
| ٦                                                                                              | Explain about the concept of files in detail.  (OR)                       |                                   |                                                    |                  |
| 3.                                                                                             | What is an Exception? Explain about the concept of Exception Handlin      | ng in Python with an example.     |                                                    |                  |
| G                                                                                              | Explain about the concept of Lists in Python and Give examples.           |                                   |                                                    |                  |
| -(                                                                                             | (OR)                                                                      |                                   |                                                    |                  |
| la                                                                                             | · What is Thread? Explain about creating threads in Python with exampl    | es.                               |                                                    |                  |
|                                                                                                |                                                                           |                                   |                                                    |                  |

| Regd No:                  |                                                                       |                                  |                                              | •                                                   |
|---------------------------|-----------------------------------------------------------------------|----------------------------------|----------------------------------------------|-----------------------------------------------------|
|                           |                                                                       |                                  | Room                                         |                                                     |
| 15.007                    | KAKARAPARTI BHAVANAR<br>I SEMESTER I                                  | AYANA COLLEGE<br>END EXAMINATION | C (AUTONOMOU<br>ONS                          | IS)                                                 |
| itle of Pape<br>aper Code | : I MCA : Computers er: Programming and problem : R22MCA101 : 2022-23 | solving using .                  | Max Marks Pass Mark Duration Paper Time Date | :70<br>:28<br>:3 Hrs<br>:9am to 12pm<br>:24/02/2023 |
| A A 1                     | SEC                                                                   | CTION -A                         |                                              |                                                     |
| Answer A                  | LL the following Questions.                                           |                                  |                                              | 5X14=70M                                            |
| Explain a                 | bout Attributes, binding and s                                        | emantic functions (OR)           | 3.                                           |                                                     |
| . Explain a               | bout variables and Constants,                                         | Aliases.                         |                                              |                                                     |
| . Explain o               | control statements in Python.                                         |                                  |                                              |                                                     |
| . Explain a               | about Iterative statements in P                                       | (OR)<br>ython.                   |                                              |                                                     |
| . Explain                 | about string concept in Python                                        | 1.                               |                                              |                                                     |
| . Explain                 | about Function in Python.                                             | (OR)                             |                                              |                                                     |
| . Explain                 | Exception Handling in python.                                         |                                  |                                              |                                                     |
|                           | 1 to the                                                              | (OR)                             |                                              |                                                     |
| . Explain                 | the concept of in Python.                                             |                                  |                                              |                                                     |
| . Explain                 | about Inheritance in Python.                                          |                                  |                                              |                                                     |
|                           |                                                                       | (OR)                             |                                              |                                                     |
| <b>0.</b> Explain         | dictionary methods in Python.                                         |                                  |                                              |                                                     |
|                           |                                                                       |                                  |                                              |                                                     |

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| egd No:                                                          |                                                            | Room No:                         |
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|                                                                  | KAKARAPARTI BHAVANARAYANA CO<br>PG: I SEMESTER END EXA     | OLLEGE (AUTONOMOUS)              |
| lass: M                                                          |                                                            | Max.Marks: 70M                   |
| ubject: COMPUTER APPLICATIONS itle of the Paper: DATA STRUCTURES |                                                            | Pass Marks: 28M                  |
|                                                                  |                                                            | Duration: 3Hrs                   |
| aper Co                                                          | de: R20MCA102                                              | Time: Jam to 12pm                |
| V.E.F:20                                                         | 020-21                                                     | Date: 27/02/2023.                |
| Answe                                                            | er ALL Questions. All Questions carry equal marks          | 5 X 14=70 M                      |
| ١.                                                               | What is Data Structure? Explain about Operations of Dat    | ta Structure with examples.      |
|                                                                  | (OR)                                                       |                                  |
| 2                                                                | Define an Algorithm. Discuss about various Asymptotic      | Notations.                       |
| 3                                                                | Define String. Explain about storing Strings and various S | String Operations with examples. |
|                                                                  | (OR)                                                       |                                  |
| 4                                                                | Write about Linear Arrays. Explain Binary Search with a    | an example.                      |
| 2                                                                | Define Linked List. Explain about Two Way Lists with a     | an example.                      |
|                                                                  | (OR)                                                       |                                  |
| G                                                                | Define Stack. Explain about Array representation of Stack  | ck with an example.              |
| 7                                                                | What is Binary Tree? Explain about Binary Search Trees     | s with example.                  |
| 8 .                                                              | Explain about Heap Sort and Huffman's Algorithms with      | h examples.                      |
|                                                                  |                                                            |                                  |
| 9                                                                | What are the operations of Graph. Explain about Graph T    | raversals with examples.         |
| -ما                                                              | (OR)                                                       |                                  |
| 10                                                               | What is sorting? Explain about Merge Sort with an exam     | nple.                            |

| legd No:                                              | Room No:                  |
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| KAKARAPARTI BHAVANARAYAN                              | A COLLEGE (AUTONOMOUS)    |
| PG I SEMESTER END                                     | EXAMINATIONS              |
| : I MCA                                               | Max Marks : 70            |
| Computers                                             | Pass Mark : 28            |
| the of Paper: Data Structures                         | Duration : 3 Hrs          |
| ner Code . RZZMONIOZ                                  | Paper Time : 9am to 12 pm |
| E.F : 2022-23                                         |                           |
| SECTION                                               | . 211021204               |
| Answer ALL the following Questions.                   | •                         |
|                                                       | 5X14=70M                  |
| . Explain about Linear Search and Binary Sea          | rch with example?         |
| (OR)                                                  | ·                         |
| . Explain about Matrices and Sparse Matrices          |                           |
| 3. What is Stack? Explain about Stack implem          |                           |
| 4. Explain about types of Linked List with example 1. | nple?                     |
| 5. Explain about Binary Tree Traversing algori        | thmswith example?         |
| i. Explain about Heap Sort with example.              | )                         |
| (OR                                                   | 2)                        |
| 1. Explain about M-Way Search Tree with exa           | mple?                     |
| 3. Explain about insertion into B+ Tree and D         | eletion from a B+ Tree?   |
| (OF                                                   | 2)                        |

(OR)

3. Explain about Graph Traversing algorithms with example?

lo. Explain about Dijkstra's algorithm with example?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) Regd No: PG I - SEMESTER END EXAMINATIONS : I MCA Max Marks: 70 155 : Computer Science Pass Mark: 28 bject | Mathematical And Statistical Foundations | R22MCA103 Duration : 3 Hrs : R22MCA103 Time : 9am to 12PM : 2022-23 Date SECTION-A Answer ALL Questions Give a proof by equivalence of the theorem "If n is a positive integer, then n is odd if and 5X14=70M only if n2 is odd". (OR) 2. Use mathematical induction to show that  $1+2+2^2+\ldots+2^n=2^{n+1}-1$  for all non-negative integers n. 3. How many solutions does the equation  $x_1+x_2+x_3+x_4+x_5=20$ , where  $x_i \ge 2$ ,  $1 \le i \le 5$ . (OR) Find the solution of the recurrence relation  $a_n = a_{n-1} + 2$   $a_{n-2}$  with  $a_0 = 2$  and  $a_1 = 7$ . . Explain Isomorphism of Graphs with an example. (OR) . Show that the Relation  $R=\{(x, y)/3 \text{ divides } (x-y)\}$  on a set  $A=\{1,2,3,4,5,6,7\}$  is an equivalence relation. Explain about different probability distributions. (OR) · Explain about Conditional and Discrete Probability. · Explain about Hypothesis and Significance Testing. (OR) 0. Explain estimating and testing hypothesis on a proportion.

Room No: 218

Regd No: K8125521

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
PG I - SEMESTER END EXAMINATIONS

I-M SC (ACH)

PG 1 - SEMESTER END EXAMINATIONS

Mov Morlow 70

Class : I-M.Sc (ACH) Max Marks : 70
Subject : Chemistry Pass Mark : 28
Title of Paper : General Chemistry-I Duration : 3 Hrs

Paper Code: R22ACH101 / R22OCH101 Time: 9am to 12pm W.E.F: 2022-23

SECTION-A

I. Answer ALL Questions

5X14=70M

- 1. i) What is an error? Explain different types of errors with suitable examples
  - ii) Write a short note on significant figures with examples.

(OR)

- 2. i) Explain Gaussian distribution curve;
  - ii) Explain T-test and F-test and write their significance.
- 3. i) Write a note on complexometric titrations.
  - ii) Explain the estimation of Calcium and Magnisium by EDTA in detail.

(OR)

- 4. a) What are Redox titrations and write different titrations which falls under this Redox titrations?
  - b) implair change of redox potential during Fe (II) Vs Cc(IV) utration with graphical representation.
- 5. Write a brief note on steam, fractional distillation and their industrial applications.

(OR)

- 6. i) Explain the basic principle of Soxhlet extraction and write its industrial applications
  - ii) Write a short note on drying agents:
- 7. Write a short note on the following
  - i) Colum Chromatography ii) Packing of Column iii) Paper Chromatography

(OR)

- 8. Discuss the following.
  - i) TLC-Principle ii) Methods of TLC plates iii) Applications of TLC
- 9. Discuss the following.
  - a) Gas Chromatography-Principle b) Detectors & Columns used in Gas Chromatography.

(OR)

10. Discuss normal & reverse-phase HPLC and its applications.

Regd No: K8225521

Room No: 222

# KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG I SEMESTER END EXAMINATIONS

| Clas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              | Max Marks : 75        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
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| W.E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F : 2022-23                                                                                  | Date : 15             | 04 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
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| I. An                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | swer ALL the following Questions.                                                            | 5X                    | 14=70M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 1. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Explain the aromaticity of benzenoid and non – benzenoid write a note on anti – aromaticity. | noid Compounds.       | (8M)<br>(6M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
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| The second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Describe Stability and reactivity of Carbocations.                                           |                       | (7M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| 3. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Explain SN <sup>1</sup> and SN <sup>2</sup> Reactions with Mechanisms.                       |                       | (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| (0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Write a note on Benzyne Mechanism.                                                           |                       | (6M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 4. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Explain Von – Richter Rearrangement.                                                         |                       | (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| . (b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Explain Neighbouring group participation.                                                    |                       | (6M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| 5. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Discuss the stereo chemical aspects and mechanism of                                         | Halogenation of alker | nes. (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Write a note on homogeneous catalytic hydrogenation of                                       | of alkenes.           | (6M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| The same of the sa | Explain the Mechanisms of Hofmann and Saytzeff rule                                          |                       | (7M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 7. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Discuss the Reaction and Mechanism of Benzoin Cond                                           |                       | · (7M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Explain the Reaction and Mechanism of Perkin Conder                                          | sation.               | (7M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| 8. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Explain the Clemmensen reduction and Wolf - Kishne                                           | r Reduction Reaction  | is. (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Explain the Mechanism of oppenaur oxidation reaction                                         | 1.                    | (6M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 9. (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Write a note on Enantiomers and Diastereomers with s                                         | uitable examples.     | (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Explain R, S - nomenclature with suitable examples.                                          |                       | (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| 10.(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Explain Fischer and Sawhorse Projections of Organic Mo                                       | olecules.             | (8M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| (b) V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | That are Geometrical Isomerism. Explain E, Z - Nomencl                                       | ature with an examp   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
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Regd No: K8225521 Room No: 218 KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG I SEMESTER END EXAMINATIONS : I.M.Sc.(ACH,OCH) Class Max Marks : 70 : Chemistry Subject Pass Mark :28 Title of Paper: Inorganic Chemistry : 3 Hrs Duration Paper Code: R22ACH103/R22OCH103 : 9am to 12pm Paper Time : 2020-21 W.E.F Date SECTION -A I. Answer ALL the following Questions. 5X14=70M 1. i) Given the IUPAC name of the following compounds. [K4Fe(CN6)] [Co(NH<sub>3</sub>)<sub>6</sub>]Cl<sub>3</sub> [Ni(CN)<sub>4</sub>]<sup>2-</sup> [Cu(NH<sub>3</sub>)<sub>4</sub>]<sup>2+</sup> 6 marks ii) Write about Werner's theory of coordination compounds. (OR) 2. Discuss the geometrical isomerism exhibited by the complexes with Coordination 14 marks Number 4 & 6. (i) What is VSEPR theory? Explain how this model useful in explain the shape of 9 marks molecule. (ii) Write about Bent's rule. 5 Marks (OR) 8 mouths 4. (i) Explain M.O diagram for [NO<sub>2</sub>]-1 ion. 6 marks Explain Walsh diagram for bent shape of water (H2O) molecule. 5. What is John - Teller effect? How does it influence the geometry of octahedral 14 marks complexes, explain with suitable examples. (OR) 6. (i) Write the splitting of d- orbitals in octahedral and square pyramidal complexes. & markly 6 marks (ii) Discuss the effects of  $\pi$  – donor and  $\pi$ - acceptor ligands on  $\Delta_0$ . 7. Determination of formation constant by. 14 marky (i) Job's method (ii) PH metric method (OR) 8 marky 8. (i) Write a brief note on Pearson Hard and Soft Acid Base theory. 6 marks (ii) Explain Irving William series. Describe the structure, synthesis and properties of. 14 marks (i)B - N cyclic compounds (ii) P - N cyclic compounds. 10. (i) What are clathrate compounds. 3 malks Analytical applications of Lanthanoids. 5 mulls (iii) Explain structure and bonding in dinitrogen complexes. 6 mally

| 200m No: 218                                                                                                                    | Regd No:                                                                        |
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| KAKARAPARTI BHAVANARAYANA CO                                                                                                    | OLLEGE (AUTONOMOUS)                                                             |
| Class : I M.Sc (OCH) Subject : Chemistry Title of Paper : Physical Chemistry-I Paper Code : R22ACH104/R22OCH104 W.E.F : 2022-23 | Max Marks: 70 Pass Mark: 28 Duration: 3 Hrs Time: 9am to 12pm Date: 19 04 2023. |
| SECTION                                                                                                                         | V-A                                                                             |
| I. Answer ALL Questions                                                                                                         | 5X14=70M                                                                        |
| 1. Discuss the quantum mechanics of 1-D box in detail                                                                           | 1. 14 M.                                                                        |
| (OR)                                                                                                                            |                                                                                 |
| 2. Derive Wave equation based on Operator concept.                                                                              | 14 M.                                                                           |
| 3. Discuss the following                                                                                                        |                                                                                 |
| i) Entropy of mixing of Ideal gases ii) Classius-Clap                                                                           | peyron equation 7+7                                                             |
| (OR)                                                                                                                            |                                                                                 |
| 4. a) What is Chemical Potential? Explain its variation v                                                                       | with temperature and pressure                                                   |
| b) Write a short note on first and second law of thern                                                                          |                                                                                 |
| 5. What are the drawbacks of Collision theory and how                                                                           | these are rectified by Transition                                               |
| state theory? Derive the thermodynamical formulatio                                                                             | on of rate constant. 14M                                                        |
| (OR)                                                                                                                            |                                                                                 |
| 6. Discuss Primary & Secondary Salt effects.                                                                                    | +7                                                                              |
| 7. Write a short note on the following                                                                                          |                                                                                 |
| i) Surfactants- Classification ii) Factors affecting CMC                                                                        | Ciii) Micro emulsions 6+6+2                                                     |
| (OR)                                                                                                                            |                                                                                 |
| 8. Derive BET equation and explain its significance.                                                                            | 14M                                                                             |
| 9. a) Derive Nernst equation for EMF measurements.                                                                              | TM                                                                              |
| b) Explain the determination of solubility product from                                                                         | m EMF measurements. T M                                                         |
| (OR)                                                                                                                            |                                                                                 |
| 10. Derive an equation for EMF of Concentration Cells transference.                                                             | with transference & without                                                     |
|                                                                                                                                 |                                                                                 |

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# KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG I SEMESTER END EXAMINATIONS

Class : I MCA, MBA, M.Sc. (ACH, OCH) Max Marks : 70 Subject : Management/Chemistry : 28 Pass Mark Title of Paper: Personality Development through Life Enlightment Skills : 3 Hrs Duration

Paper Code : R22MCA105/R22MBA107/R22ACH105/R22OCH105 Paper Time

: 9am to 12pm W.E.F : 2022-23 :24/04/2023 Date

### SECTION -A

# I. Answer ALL the following Questions.

5X14=70M

1. Define Personality Development. Explain various Theories of Personality Development.

(OR)

- 2. Explain the SWOT Analysis.
- 3. Explain about the various Theories of Motivation.

(OR)

- 4. Define Self Esteem. Explain the Nature and Importance of Self Esteem.
- 5. Explain about dimensions of Emotional Intelligence and Building Emotional Intelligence.

(OR)

- Explain about Decision Making Skills and Leadership and Qualities of a Successful 6. Leader.
- 7. Explain about Neetisatakam Holistic Development of personality Verses.

(OR)

- 8. Describe the Concept of Personality of Role Model.
- 9. Explain: 1 Instant Relaxation Technique.

2 Quick Relaxation Technique.

3 Deep Relaxation Technique.

(OR)

10. Explain about the Anulom and Vilom Pranayama.