KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by S.K.P.V.V.Hindu High Schools' Committee)

Kothapeta, Vijayawada

(An Autonomous College in the Jurisdiction of Krishna University)

COLLEGE WITH POTENTIAL FOR EXCELLENCE

ISO-9001-2008 CERTIFIED INSTITUTION   NAAC 'A' GRADE

Dept. of HVPE	CBAS401	2016-2017	All Second Year Degree Classes

Semester – IV
ANALYTICAL SKILLS COURSE OBJECTIVES

- Learn to describe the problem-solving process
- Identify various problem-solving techniques and apply these in solving business problems
- Understand thinking models and practise exercises to help in thinking
- Understand creativity and blocks to creativity
- Arrive at objective, well-reasoned decisions in a reasonable time

COURSE OUTCOMES

- Critical Thinking. Demonstrate clearer and more effective critical thinking skills for business.
- Develops Analytical Skills on How to Research and Present Information.
- Quickly synthesize qualitative data, determine implications, and make informed decisions.
- Develops Strategic Thinking.

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<u>**Semester – IV**</u>   **Max. Marks:50**
                                                          Pass Marks: 20

<u>ANALYTICAL SKILLS</u>

<u>UNIT – 1:</u>

Data Analysis:-The data given in a Table, Graph, Bar Diagram, Pie Chart, Venn diagram or a passage is to be analyzed and the questions pertaining to the data are to be answered.

<u>UNIT – 2</u>

Sequence and Series:- Analogies of numbers and alphabets completion of blank spaces following the pattern in A:b::C: d relationship odd thing out; Missing number in a sequence or a series.

<u>UNIT - 3</u>

Arithmetic ability:-Algebraic operations BODMAS, Fractions, Divisibility rules, LCM&GCD (HCF).

Date, Time and Arrangement Problems: Calendar Problems, Clock Problems, Blood Relationship.

<u>UNIT - 4</u>

Quantitative aptitude:- Averages, Ration and proportion, Problems on ages, Time-distance – speed.

<u>UNIT – 5</u>

Business computations:- Percentages, Profit &loss, Partnership, simple compound interest.

<u>Reference Books:</u>

1. Quantitative Aptitude for Competitive Examination by R S Agrawal, S.Chand publications.
2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
3. Quantitative Aptitude : Numerical Ability (Fully Solved) Objective Questions, Kiran Prakashan, Pratogita prakasan, Kic X, Kiran Prakasan publishers
4. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw hill publications.
5. Old question Paper of the exams conducted by (Wipro, TCS, Infosys, Etc) at their recruitment process, source-Internet.

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<u>**Semester – IV**</u>   **Max. Marks:50**

TIME: 2 HOURS   **Pass Marks:20**

ANALYTICAL SKILLS

(Question paper will be given in English Language)

I   Answer <u>ALL</u> of the following   **10 X 1 = 10**

1. Find the odd man out of the series - 3,5,7,12,17,19.

2. Find the odd man out of the series. - 3,5,7,9,11,14,17,21.

3. Simplify: 5005-5005+10.

4. Simplify:108/36 of ¼ + 2/5 x 3 1/4

5. Simplify : 9358 – 6014 + 3127.

6. If a:b = 5: 9 and b:c = 4:7 find a:b:c:

7. Find the average of all prime numbers between 30 and 50.

8. Express 56% & 4 % as a fraction.

9. Express 23/36 as rate percent.

10. Show that 4832718 is divisible by 11.

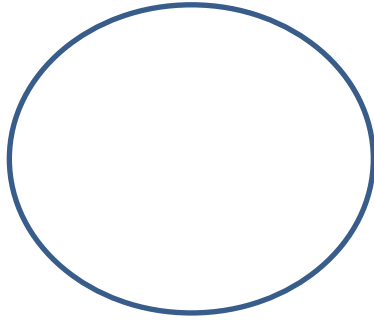**II ANSWER ANY <u>FIVE</u> OF THE FOLLOWING**   **5 x 2 = 10**

11. Find out the wrong number in the series – 22,33,66,99,121,279,594.

12. Insert the missing number in the series – 1,4,9,16,25,36,49.

13. Find the value of (1-1/3) (1-1/4) (1-1/5) …… (1-1/100).

14. If $2x/1+1/1+x/1-x = 1$, then find the value of x.

15. if $x/4 –x-3/6 =1$, then find the value of x.

16. Find the average of first 20 multiples of 7.

17. if x:y = 3:4, find (4x+5y) : (fx-2y).

18. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?

19. A cyclist covers a distance of 750 m in 2 min 30 sec. What is the speed in km/hr of the cyclist?

20. A man buys an article for Rs.27.50 and sells it for Rs.28.60. Find his gain percent.

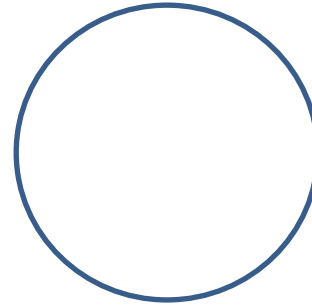**III ANSWER ANY <u>FIVE</u> OF THE FOLLOWING**   **5 x 6 = 30**

21.   The following pie-charts show the distribution of students of graduate and post-graduate level in seven different institutions – m,n,p,q,r,s, and t -.in a town.

Total no. of students of graduate level = 27,300.   **Total no.of students of Post – graduate level =24,700.**

   a.   How many students of institues M & S are studying at graduate level?
b . Find Total No. of Students studying at Post-graduate level from institutes N and P ?
c. What is the total No. of Graduate & Post –graduate level students in institute R?
d. What is the ratio between the No. of students studying at Post – graduate &graduate levels respectively from institute S?
e.What is the ratio between the No. of students studying at post-graduate level from institute 'S' and the No. of students studying at graduate level from institute Q ?

22. How many numbers between 11 and 90 are divisible by '7'?

23. What was the day of the week on 16th April, 2000?

24. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25.

25. The average age of a class of 39 students is 15 years. If the age of the teacher be included, then the average increases by 3 months. Find the age of the teacher.

26. The salaries of A,B,C. are in the ratio 2:3:5. If the increments of 15 %, 10 % and 20 % are allowed respectively in their salaries, then what will be the new ratio of their salaries?

27. The Present age of a father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years more than twice the age of the son. Find the present age of the father.

28. A,B and C started a business by investing Rs. 1,20,000 , Rs. 1,35,000 and Rs. 1,50,000 respectively. Find the share of each, out of an annual profit of Rs. 56,700.

29. A book was sold for Rs. 27.50 with a profit of 10 %. If it were sold for Rs. 25.75, then what would have been the percentage of profit or Loss?

30. In how many years, Rs. 150 will produce the same interest 8 % as Rs. 800 produce in 3 years 4 ½ %?