

II B.Sc./BA/B.COM ANALYTICAL SKILLS

Semester IV (w.e.f 2017-2018)

Total Hrs. of Teaching-Learning: 30@ 2 hr/Week

Total credits: 02

UNIT - 1

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.

UNIT - 2

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.

UNIT - 3

Arithmetic ability:- Algebraic operations- BODMAS – Fractions - Divisibility rules- LCM&GCD (HCF) - Date, Time and Arrangement Problems; Calendar problems, Clock problems, Blood Relationship.

UNIT - 4

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

UNIT - 5

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

Reference Books:

1. Quantitative Aptitude for Competitive Examination by R S Agrawal, S.Chand publications.

**BLUE PRINT FOR QUESTION PAPER PATTERN
(IV Semester)**

S.NO	UNIT	To be given in the Question Paper			Marks allotted to each Unit
		V.S.A.Q Multiple choice (1 Mark)	S.A.Q (3 Marks)	E.Q (5 Marks)	
1	UNIT-I	-	-	2	10
2	UNIT-II	10	-	-	10
3	UNIT-III	-	3	2	19
4	UNIT-IV	-	2	2	16
5	UNIT-V	-	3	2	19
TOTAL MARKS					74

(14)

P.R.GOVERNMENT COLLEGE (A), KAKINADA
II B.Sc./BA/B.Com. – ANALYTICAL SKILLS / Semester- IV
(W.E.F. 2017-2018)

Time: 2 Hrs

Total Marks: 50M

SECTION- A

Answer all questions. Each question carries 1 mark.

10 x 1 = 10M

1. Find missing number

1, 3, 3, 6, 7, 9, ---, 12, 21

()

a) 10

b) 11

c) 12

d) 13

2. which fraction comes next in the sequence

$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, \text{---}$

()

a) $\frac{9}{32}$ b) $\frac{10}{17}$ c) $\frac{12}{19}$ d) $\frac{11}{18}$

()

3. Find the wrong number in the series

3, 8, 15, 24, 34, 48, 63

a) 15

b) 24

c) 34

d) 48

()

4. Find the wrong number in the series

196, 169, 144, 121, 101

a) 169

b) 101

c) 121

d) 196

()

1. Anemia: Blood : Anarchy:?

()

1. Menu: Food : Catalogue:?

()

1. Rack

b) Newspaper

c) Library

d) Books

1. Mumbai: Maharashtra : Trivandrum:?

1. Kolkatta

b) Gujarat

c) Kerala

d) Sikkim

()

8. Find the next two terms in the series

A, C, F, J, ---

a) L, P

b) M, O

c) O, U

d) R, V

()

9. Find the next term in the series:

BMO, EOQ, HQS, _____

a) KSU

b) LMN

c) SOV

d) SOW

10. Find the missing term

ADVENTURE, DVENTURE, DVENTUR, _____, VENTU

- a) DVENT b) VENTURE c) VENTUR d) DVENTU

SECTION - B

Answer any FIVE of the following questions. Each question carries 3 marks. $5 \times 3 = 15$ M

- Find the value of $\left(\frac{5}{7} \text{ of } 1\frac{6}{13}\right) + \left(2\frac{5}{7} + 3\frac{1}{4}\right)$.
- The HCF of two numbers is 11 and their LCM is 7700. If one of the numbers is 275, then what is the other number?
- Today is Monday. After 61 days, what day will come?
- Pointing to a man, a woman said, "His mother is the only daughter of my mother". How is the woman related to the man?
- What is the average of all odd numbers up to 100?
- The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. What is the ratio of their present ages?
- If 75% of a number is added to 75, then the result is the number itself. What is that number?
- Anand and Deepak started a business investing Rs 22,500 and Rs 35,000 respectively. What is Deepak's share in the total profit of Rs 13,800?
- A Sum of money at simple interest amounts to Rs 815 in 3 years and to Rs 854 in 4 years. Find that amount.

SECTION - C

Answer any FIVE of the following questions. Each question carries 5 marks. $5 \times 5 = 25$ M

10. Number of students passed and failed in 5 groups of a college for last 6 years is given below. Study the table and answer the following questions

Classes	B.A		B.Sc		B.Com		M.A		M.Com	
Years	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
2010	50	42	76	14	58	18	65	17	48	23
2011	60	19	95	22	71	30	75	12	76	28
2012	45	13	61	19	49	15	48	08	74	20
2013	58	21	75	25	80	28	60	11	84	14
2014	55	18	66	29	59	26	70	13	65	17
2015	68	31	54	38	77	34	82	21	55	14
	336	144	427	147	394	151	400	82	402	116

- What is the average number of failed students from class B.Sc for the given years? ()
a) 27.5 b) 28 c) 26.5 d) 24.5
- What is the ratio between total number of passed students and total number of

failed students for the year 2015?

- a) 3:1 b) 56:23 c) 67:13 d) 68:35

iii) Which of the following group has the maximum number of passed students, as compared to the total number of students of that group over the years?

- a) B.A b) B.Sc c) B.Com d) M.A

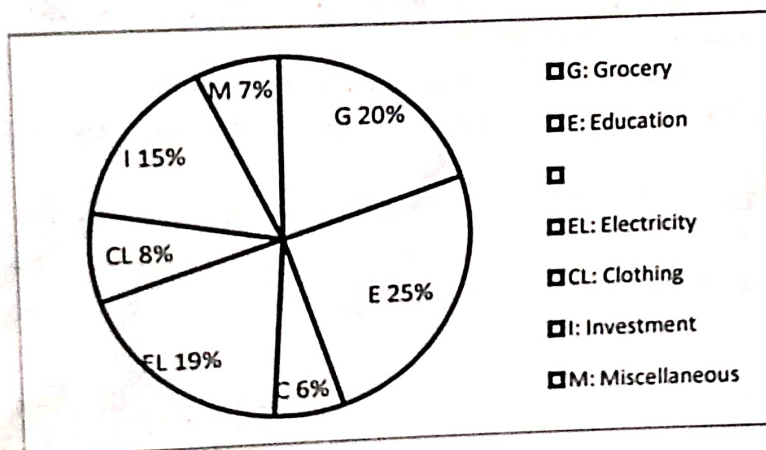
iv) What is the number of passed students for all the groups together in the year 2012?

- a) 277 b) 298 c) 316 d) 354

v) What is the total percentage of passed students of class B.A from all the years together?

- a) 52 b) 87 c) 70 d) 78

11. Directions: Study the pie-Graph given below and answer the questions that follow.



Budget Estimated by a Family for their Monthly Expenses Total Salary= Rs 32000 per month

i) What is the budget estimated by the family on Clothing and Grocery together

- a) Rs 8960 b) Rs 8550 c) Rs 8780 d) 8690

ii) Due to a sudden marriage, the family incurs miscellaneous expenditure of Rs 3040 in total. How much is the increase in the amount under this head from that of the budgeted?

- a) Rs 1738 b) Rs 304 c) Rs 800 d) Rs 224

- iii) The family actually paid Rs 4672 on Grocery. What is the difference in the amount budgeted and spent on Grocery? ()
- a) Rs 1738 b) Rs 1672 c) Rs 1728 d) Rs 1038
- iv) What is the difference in the amount estimated by the family on Electricity and Cell bill? ()
- a) Rs 1920 b) Rs 4160 c) Rs 6080 d) Rs 8000
- v) The family saved Rs 1920 on their Electricity Bill, as it was less than the estimated budget. What is the percentage of Electricity Bill amount of the total salary? ()
- a) 10.5% b) 12% c) 14.5% d) 13%

12. Find the value of $20\% \text{ of } 60 \div 3 + (5 \times 7) \div 5 - 1$.
13. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
14. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?
15. Distance between two stations A and B is 778 km. Han covers the journey from A to B at 84 km per hour and returns back to A with a uniform speed of 56 km per hour. Find his average speed during the whole journey)
16. Three partners A, B, C starts a business. Twice the investment of A is equal to thrice the capital of B and the capital of B is four times the capital of C. finds the share of each out of a profit of Rs.297000?
17. A sum of Rs 1600 gives a simple interest of Rs 252 in 2 years and 4 months. The rate of interest per annum is?
