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P.R.GOV.T.COLLEGE (AUTONOMOUS), KAKINADA
II B.Sc./BA/B.COM - Semester IV (w.e.f 2017-2018)
Course: ANALYTICAL SKILLS

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

Total credits: 02

Objectives:

- To impart the knowledge of arithmetic and reasoning.
- To built up confidence for writing competitive examinations.

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. (6 hrs)

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. (6 hrs)

UNIT - 3

Arithmetic ability:-Algebraic operations- BODMAS – Fractions - Divisibility rules- LCM&GCD (HCF) - Date, Time and Arrangement Problems; Calendar problems, Clock problems, Blood Relationship. (6 hrs)

UNIT - 4

Quantitative aptitude:- Averages - Ration and proportion - Problems on ages - Time-distance – speed. (6 hrs)

UNIT - 5

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

(6 hrs)

Reference Books:

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

BLUE PRINT FOR QUESTION PAPER PATTERN
SEMESTER-IV
ANALYTICAL SKILLS

UNIT	TOPIC	V.S.A.Q Multiple choice (1 Mark)	S.A.Q (3 Marks)	E.Q (5 Marks)	
1	Data Analysis	-	-	2	10
2	Sequence and Series	10	-	-	10
3	Arithmetic ability	-	3	2	19
4	Quantitative aptitude	-	2	2	16
5	Business computations	-	3	2	19
TOTAL MARKS					74.

V.S.A.Q = Very short answer questions (1 mark)

S.A.Q = Short answer questions (3 marks)

E.Q = Essay questions (5 marks)

Very short answer questions : $10 \times 1 = 10$

Short answer questions : $05 \times 3 = 15$

Essay questions : $05 \times 5 = 25$

Total Marks
= 50

P.R.Government College (Autonomous), Kakinada
II B.Sc./BA/B.Com. Degree Examination –Semester- IV
ANALYTICAL SKILLS
Model Paper (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. Missing number in the series is-----
1, 9, 25, 49, ?, 121
a) 64 b) 81 c) 91 d) 100
()
2. Missing number in the series is-----
4, 10, 18, 28, 40, 54, 70, ?
a) 85 b) 86 c) 87 d) 88
()
3. The wrong number in the series is -----
8, 13, 21, 32, 47, 63, 83
a) 13 b) 21 c) 32 d) 47
()
4. Missing Alphabet in the series is -----
T, R, P, N, L, ?, ?
a) F b) J, H c) K, H d) K, L
()
5. Missing Alphabet in the series is -----
AB, DEF, HIJK, ?, STUVWX
a) LMNO b) LMNOP c) MNOPQ d) QRSTU
()
6. Missing term in the series is -----
D-4, F-6, H-8, J-10, ?, ?
a) K-12, M-13 b) L-12, M-14 c) L-12, N-14 d) K-12M-14
()
7. Missing Letter in the Series is -----
__aba__ba__ab
a) abbbba b) abbab c) baabb d))bbaba
()
8. Find relation ship between the words
Botany : Plants : : Entomology : ?
a) Snakes b) nsects c))Birds d) Germs
()
9. Find relation ship between the words is
Needle is related to Thread in the same way as Pen is related to ?
a) Ink b) Cap c) Paper d) Word
()
10. Find relation ship between the numbers is
18 : 30 :: 36 : ?
a) 54 b) 62 c) 64 d) 66
()

SECTION - B

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

11. Find the value of $\frac{(6+6+6+6)+6}{4+4+4+4+4}$
12. If the number $517*324$ is completely divisible by 3, then the smallest whole number in Place of * will be.
13. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
14. If $A : B = 2 : 3$ $B : C = 4 : 7$ then find $A : B : C = ?$
15. The average of four consecutive even numbers is 27. Find the largest of these Numbers.
16. What is 25% of 25% equal to?
17. A man buys a cycle for Rs.1400 and sells it at a loss of 15%. What is the selling price of the cycle?
18. Find the simple interest on Rs 7500 in 4 years at 15%

SECTION - C

Answer any FIVE of the following questions. Each question carries 5 mark $5 \times 5 = 25 M$
19. DIRECTIONS: Study the table carefully to answer the questions that follow:

Maximum and minimum Temperature(in degree Celsius) recorded on first day of each month for five different cities.

Month	Temperature									
	Bhuj		Sydney		Ontario		Kabul		Beijing	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1 st sep	24	14	12	2	5	1	34	23	12	9
1 st oct	35	21	5	-1	15	6	37	30	9	3
1 st nov	19	8	11	3	4	0	45	36	15	1
1 st dec	9	2	-5	-9	-11	-7	31	23	2	-3
1 st jan	-4	-7	-11	-13	-14	-19	20	11	5	-13

1. What is the difference between the max temperature of Ontario on 1st Nov and the min temperature of Bhuj on 1st Jan?

(1) 3 °C (2) 18 °C (3) 15 °C (4) 9 °C (5) 11 °C

2. In which month respectively the max temperature of Kabul is 2nd highest and min temperature of Sydney is highest ?

- (1) 1stoct & 1stjan (2) 1stoct & 1stnov (3) 1stdec & 1stjan (4) 1stsept & 1stjan
(5) 1stdec & 1stSept

3. In which month on 1st day is the difference between the max temperature & min temperature of Bhuj second highest ?

- (1) 1stsept (2) 1stoct (3) 1stnov (4) 1stdec (5) 1stjan

4. What is the averagemaximum temperature of Beijing over all the months together.

- (1) 8.4°C (2) 9.6°C (3) 7.6°C (4) 9.2°C (5) 8.6°C

5. What is the respective ratio between the min temperature of Beijing on 1stsept & the max temperature of Ontario on 1stoct ?

- (1) 3:4 (2) 3:5 (3) 4:5 (4) 1:5 (5) 1:4

20. Study the following bar graphs carefully to answer these questions

Marks obtained by 5 students in physics & chemistry



1. Marks obtained by S in chemistry is what percent of the total marks obtained by all the students in chemistry ?

- (1) 25 (2) 28.5 (3) 35 (4) 31.5 (5) 22

2. If the marks obtained by T in physics were increased by 14% of the original marks, what would be his new approximate % in physics if the max marks in physics were 140?

- (1) 57 (2) 32 (3) 38 (4) 48 (5) 41

3. Fill in the blank space in order to make the sentence correct as per the given information.
Total marks obtained by T in both the subjects together is more than the marks obtained by
(1) Q in chemistry (2) R in physics (3) S in chemistry (4) P in physics
(5) R in both the subjects together
4. What is the respective ratio between the total obtained by P in physics & chemistry together to the total marks obtained by T in physics & chemistry together ?
(1) 3:2 (2) 4:3 (3) 5:3 (4) 2:1 (5) None of these
5. What is the respective ratio between the total marks obtained by Q & S together in chemistry to the total marks obtained by P & R together in physics?
(1) 23:25 (2) 23:21 (3) 17:19 (4) 17:23 (5) none of these
21. The H.C.F. of two numbers is 11 and their L.C.M. is 693. If one of the numbers is 77, then Find the other
22. A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours ^{what} will be the true time when the clock indicates 1 p.m. on the following day?
23. If $\frac{1}{5} : \frac{1}{x} :: \frac{1}{x} : \frac{1}{125}$, then the value of x is?
24. How many minutes does Aditya take to cover a distance of 400m, if he runs at a speed of 20 km/hr?
25. Sanjay and Raju started a business and invested Rs.20000 and Rs.25000 respectively. After 4 months Raju left and Naresh joined by investing Rs.15000. At the end of the year there was a profit of Rs.4600. what is the share of Naresh?
26. Meena purchased two fans each at Rs.1200. She sold one fan at the loss of 5% and other at the gain 10%. Find the total gain or loss percent?
