



P.R. GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA
SEM END EXAMINATIONS NOV. -2024
I BA/B.COM/BBA/B.SC HONS: ANALYTICAL SKILLS

TIME: 2 HRS

SEMESTER	I	QP CODE	23SEC12
DATE & SESSION	16.12.24 & AN	REG NO	
		MAX MARKS	50

SECTION-A

Answer ALL questions. Each question carries 1 mark. 30 x 1M = 30 M

- Simplify $2 - \{2 - (2 - 2(2 + 2))\}$.
 (1) -4 (2) 4 ☒ (3) -6 (4) None of these
- Find the unit digit in the product $(2467)^{153} \times (341)^{72}$.
☒ (1) 7 (2) 1 (3) 9 (4) 3
- Find the H.C.F of 204, 1190 and 1445?
 (1) 34 ☒ (2) 17 (3) 85 (4) 204
- The next term of the series 64, 32, 16, 8, is?
 (1) 0 (2) 1 (3) 2 ☒ (4) 4
- Bird : Fly :: Snake : ?
 (1) Hole ☒ (2) Crawl (3) Clatter (4) Stroll
- CIRCLE is related to RICE/C in the same way as SQUARE is related to
 (1) OSUERA (2) QUSERA (3) UQSAER ☒ (4) UQSERA
- If a man's father is the son of the husband of a woman, what is the woman to the man?
 (1) Sister ☒ (2) Grand Mother (3) Mother-in-law (4) Niece
- At what angle the hands of a clock are inclined when it is half past "8"?
 (1) 85° ☒ (2) 75° (3) 80° (4) 60°

- How many times do the hands of a clock coincide in a day?
 (1) 24 (2) 21 (3) 20 ☒ (4) 22
- If 8th of a month falls third day after Sunday, on what will 17th of the month fall
 (1) Thursday (2) Wednesday ☒ (3) Friday (4) Saturday
- What will be the average of 1, 2, 3, ... 51, 52, 52.
 (1) 26 ☒ (2) 27 (3) 25 (4) 29
- The ages of Surekha and Arunima are in the ratio of 9 : 8 respectively. After 5 years the ratio of their ages will be 10 : 9. What is the difference in years between their ages?
 (1) 4 yr ☒ (2) 5 yr (3) 6 yr (4) 7 yr
- The fourth proportional to 5, 8, 15 is
 (1) 18 ☒ (2) 24 (3) 19 (4) 20
- The sum of all the odd numbers upto 100 is?
 (1) 2000 (2) 5000 ☒ (3) 2500 (4) 5600
- The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes.
 (1) 250 m (2) 200 m (3) 150 m (4) 100 m $15 \times 90 = 90 \times \frac{15}{60}$
- One-fifth of a number is 81. What will be 68% of that number?
 (1) 195.2 ☒ (2) 275.4 (3) 225.6 (4) 165.8
- Prasad sold his work tools for Rs. 1850 and earned a profit of 25%. At what price did Prasad buy the work tools?
 (1) Rs.1360 (2) Rs.1300 (3) Rs.1240 ☒ (4) Rs.1480
- A, B and C invested Rs.6300, Rs.4200 and Rs.10,500 respectively in a partnership business. Find the share of A in profit of Rs.12,100 after a year.
☒ (1) Rs.3630 (2) Rs.2840 (3) Rs.3200 (4) Rs.5600
- A sum of Rs.3200 becomes Rs.3456 in 2 yr at a certain rate of simple interest. What is the rate of interest per annum?
 (1) 5.5% (2) 6% ☒ (3) 4% (4) 4.5%

20. At what rate percent on simple interest will be Rs. 750 amounts to Rs. 900 in 5 years?

(1) 5% (2) $3\frac{1}{2}\%$ ☒ (3) 4% (4) $5\frac{1}{2}\%$

21. Study the following table carefully and answer the questions given below

it. Average marks obtained by students in five subjects in class X over the years.

Year	Subject				
	History out of 200	Geography out of 100	Mathematics out of 200	Science out of 150	English out of 150
1984	88	46	94	98	60
1985	90	35	88	120	90
1986	100	45	112	102	66
1987	120	38	96	112	45
1988	124	54	80	96	57

- (a) What was the approximate percentage in the average marks in Geography from 1985 to 1986?

(1) 10 (2) 20 ☒ (3) 40 (4) 30

- (b) In which of the following years was the average of the total marks in all the five subjects together maximum?

(1) 1984 (2) 1988 (3) 1987 ☒ (4) 1986

- (c) In which of the following years was the increase in average marks in History from the previous year the maximum?

(1) 1985 (2) 1986 ☒ (3) 1988 (4) 1987

- (d) The average percentage marks of which of the following pairs of subjects was same in 1985?

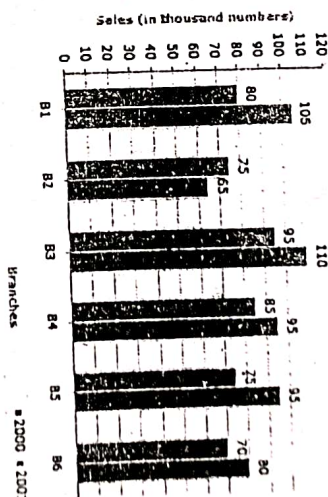
(1) Science, English (2) English, Mathematics
(3) Science, Geography ☒ (4) None

- (c) In the case of which of the following subjects was there a continuous increase in average marks over the given years?

(1) Geography (2) Mathematics (3) History (4) Science

22. The bar graph given below shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001.

(Sales of Books (in thousand numbers) from Six Branches: B1, B2, B3, B4, B5 and B6 of a publishing Company in 2000 and 2001)



- (a) What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?

(1) 2:3 (2) 3:5 (3) 4:5 ☒ (4) 7:9

- (b) Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?

(1) 68.54% (2) 71.11% ☒ (3) 73.17% (4) 75.55%
(1) 75% (2) 77.5% (3) 82.5% ☒ (4) 87.5%

- (d) What is the average sales of all the branches (in thousand numbers) for the year 2000?

(1) 73 ☒ (2) 80 (3) 83 (4) 88

- (e) Total sales of branches B1, B3 and B5 together for both the years (in thousand numbers) is?

(1) 250 (2) 310 (3) 435 ☒ (4) 560

SECTION-B

Answer any FOUR questions. Each question carries 5 marks.

4 x 5M=20 M

1. Explain the BODMAS rule.
2. Find the HCF of 12, 36, 48.
3. Explain Profit and Loss.
4. Explain the types of Partnerships.
5. Explain types of Venn diagrams.
6. Explain about Pie Charts?