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III Semester B.B.A./B.B.A. (RTM) Degree (C.B.C.S.S. - O.B.E. - Regular/ Supplementary/Improvement) Examination, November 2023 (2019 to 2022 Admissions) GENERAL AWARENESS COURSE

3A11 BBA/BBA (RTM): Numerical Skills

Time: 3 Hours

Max. Marks: 40

SECTION - A

Answer the six questions. Each question carries 1 mark.

 $(6 \times 1 = 6)$

- 1. How many Prime numbers are in between 1 and 50 ?
- Define order of a Matrix.
- 3. Find C in the proportion : $\frac{36}{C} = \frac{45}{10}$.
- 4. The maximum number of roots for a quadratic equation is equal to
- 5. The 10th term of the AP 5, 8, 11, 14, is
- Find the distance of the point p(2, 3) from the x-axis.

SECTION - B

Answer any six questions. Each question carries 2 marks.

 $(6 \times 2 = 12)$

- 7. Write any two differences between Depreciation and Amortisation.
- 8. Solve: $(2\sqrt{2} + 7\sqrt{2})(2\sqrt{2} 7\sqrt{7})$.
- 9. What is the present value of ₹ 1 to be received after 2 years compounded annually at 10%?
- Find the area of triangle formed by the points A(5, 2), B(4, 7) and C(7, -4).
- 11. Two numbers are in the ratio 3: 4. If the sum of the numbers is 63, find the numbers.
- 12. Solve: $x^2 15x + 56 = 0$.
- 13. 30 students went into a restaurant. 20 choose idli while 25 ordered for puri. How many chose both idli and puri?
- 14. If $A = \{5, 7, 9, 11\}$ and $B = \{8, 9, 10, 11\}$, find $A \cup B$, $A \cap B$ and A B.

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SECTION - C

Answer any four questions. Each question carries 3 marks.

 $(4 \times 3 = 12)$

15. If
$$A = \begin{bmatrix} 6 & 2 & 4 \\ 1 & 2 & 2 \end{bmatrix}$$
 and $B = \begin{bmatrix} 3 & 2 \\ 2 & 4 \\ 4 & 5 \end{bmatrix}$. Find AB.

- 16. Find the sum of a given Geometric series up to 6th term 4, 12, 36,
- 17. A man performs $\frac{1}{4}$ of his total journey by car, $\frac{2}{3}$ by bus and the remaining 40 km by train. Find his total journey.
- 18. Find the present value of ₹ 2,000 due in 3 years at 8% per annum compounded :
 - a) Yearly
 - b) Half yearly
- 19. Find two numbers whose sum is 74 and difference is 10.
- 20. What is the distance between two points A and B whose coordinators are (3, 2) and (9, 7) respectively ?

SECTION - D

Answer any two questions. Each question carries 5 marks. 21. Find the inverse of Matrix A.

 $(2 \times 5 = 10)$

$$A = \begin{bmatrix} 4 & 5 & 6 \\ 7 & 2 & 9 \end{bmatrix}$$

- 22. In an AP of 50 terms, the sum of first 10 terms is 210 and sum of its last 15 terms is 2565. Find the AP.
- 23. Using the quadratic formula, find the roots of the quadratic equation $x^2 - 2x - 24 = 0$.
- 24. Mr. A decides to deposit ₹ 5,000 at the end of every year in a bank which pays compound interest at the rate 5% per annum. What will be his accumulation at the end of 15 years?