

- 20) In the set  $Q$  define  $a * b = a + b + ab$ , Then the inverse of 1 is
- a)  $\frac{1}{3}$  b)  $\frac{2}{3}$  c)  $\frac{2}{\sqrt{3}}$  d)  $\frac{\sqrt{3}}{2}$
- a)  $\frac{2}{3}$  b)  $\frac{-2}{3}$  c)  $\frac{1}{2}$  d)  $\frac{-1}{2}$

### PART - II

Answer any 7 questions. Q.No. 30 is compulsory.

7×2=14

- 21) If  $A$  is symmetric, then prove that  $\text{adj } A$  is also symmetric
- 22) Which one of the points  $i$ ,  $-2 + i$  and  $3$  is farthest from the origin?
- 23) If  $\alpha, \beta, \gamma$  are the roots of the polynomial equation  $ax^3 + bx^2 + cx + d = 0$ , find  $\sum \frac{\alpha}{\beta\gamma}$
- 24) Find the principal value of  $\cot^{-1}(-\sqrt{3})$
- 25) Find the angle between the line  $\vec{r} = (2\hat{i} - \hat{j} + \hat{k}) + t(\hat{i} + 2\hat{j} - 2\hat{k})$  and the plane  $\vec{r} \cdot (6\hat{i} + 3\hat{j} + 2\hat{k}) = 8$
- 26) Solve  $\frac{dy}{dx} = \sqrt{\frac{1-y^2}{1-x^2}}$
- 27) Find the asymptotes of the curve  $f(x) = \frac{1}{x}$
- 28) In the algebraic structure, prove that the identity element is unique
- 29) Find the constant  $C$  such that  $f(x) = \begin{cases} Cx^2 & 1 < x < 4 \\ 0 & \text{otherwise} \end{cases}$
- 30) Evaluate  $\int_0^{\pi} \cos^7 x \, dx$

### PART - III

Answer any 7 questions. Q.No. 40 is compulsory.

7×3=21

- 31) If  $k$  is real, discuss the nature of the roots of the polynomial equation  $2x^2 + kx + k = 0$ , in terms of  $k$
- 32) For what value of  $x$ , the inequality  $\frac{\pi}{2} < \cos^{-1}(3x - 1) < \pi$  holds?
- 33) Find the equations of tangent and normal to the parabola  $x^2 + 6x + 4y + 5 = 0$  at  $(1, -3)$
- 34) Solve the following system of linear equations, using matrix inversion method  
 $5x + 2y = 3$ ,  $3x + 2y = 5$
- 35) If  $|z| = 3$ , show that  $7 \leq |z + 6 - 8i| \leq 13$
- 36) Find the angle made by the straight line  $\frac{x+3}{2} = \frac{y-1}{2} = -z$  with coordinate axes.
- 37) Find the angle between the curve  $y = x^2$  and  $x = y^2$  at their point of intersection  $(0, 0)$
- 38) Find the volume of the right circular cone of radius  $r$  and height  $h$ .
- 39) Show that  $p \rightarrow q \equiv \neg p \vee q$
- 40) If  $f(x, y, z) = xy + yz + zx$  find  $f_x + f_y + f_z$

### PART - IV

7×5=35

Answer all the questions

- 41) a) Investigate the value of  $\lambda$  and  $\mu$  the system of linear equations.  
 $x + 2y + z = 7$ ,  $x + y + \lambda z = \mu$ ,  $x + 3y - 5z = 5$  have  
 i) no solution ii) a unique solution iii) an infinite number of solutions  
 (OR)  
 b) Verify (i) closure property (ii) commutative property (iii) associative property (iv) existence of identity (v) existence of inverse on the set  $C = \{1, -1, i, -i\}$  where  $i^2 = -1$ , under usual multiplication.
- 42) a) If  $z = x + iy$  and  $\arg\left(\frac{z-i}{z+2}\right) = \frac{\pi}{4}$ , show that  $x^2 + y^2 + 3x - 3y + 2 = 0$   
 (OR)  
 b) A random variable  $x$  has the following probability mass function
- |        |     |      |      |      |      |       |
|--------|-----|------|------|------|------|-------|
| $x$    | 1   | 2    | 3    | 4    | 5    | 6     |
| $f(x)$ | $k$ | $2k$ | $6k$ | $5k$ | $6k$ | $10k$ |
- Find (i)  $P(2 < X < 6)$  (ii)  $P(2 \leq X < 5)$  (iii)  $P(X \leq 4)$  (iv)  $P(3 < X)$
- 43) a) Solve  $6x^4 - 35x^3 + 62x^2 - 35x + 6 = 0$   
 (OR)  
 b) Find the angle between the curve  $y^2 = x$  and the curve  $y = |x|$

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1. Understanding the eBook Question Paper 12th Std Mathematics
  - The Rise of Digital Reading Question Paper 12th Std Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper 12th Std Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Question Paper 12th Std Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper 12th Std Mathematics
  - Personalized Recommendations
  - Question Paper 12th Std Mathematics User Reviews and Ratings

- Question Paper 12th Std Mathematics and Bestseller Lists
- 5. Accessing Question Paper 12th Std Mathematics Free and Paid eBooks
  - Question Paper 12th Std Mathematics Public Domain eBooks
  - Question Paper 12th Std Mathematics eBook Subscription Services
  - Question Paper 12th Std Mathematics Budget-Friendly Options
- 6. Navigating Question Paper 12th Std Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Question Paper 12th Std Mathematics Compatibility with Devices
  - Question Paper 12th Std Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Question Paper 12th Std Mathematics
  - Highlighting and Note-Taking Question Paper 12th Std Mathematics
  - Interactive Elements Question Paper 12th Std Mathematics
- 8. Staying Engaged with Question Paper 12th Std Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Question Paper 12th Std Mathematics
- 9. Balancing eBooks and Physical Books Question Paper 12th Std Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Question Paper 12th Std Mathematics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Question Paper 12th Std Mathematics
  - Setting Reading Goals Question Paper 12th Std Mathematics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Paper 12th Std Mathematics
  - Fact-Checking eBook Content of Question Paper 12th Std Mathematics
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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