

- 20) In the set Q define $a * b = a + b + ab$, Then the inverse of 1 is
- a) $\frac{1}{2}$ 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 α, β, γ 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 λ and μ 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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Thirumalaisamy P.
Velavancorresponding



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Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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