

- 20) In the set Q define $a + b = a + b + ab$, Then the inverse of 1 is
- a) $\frac{1}{3}$ b) $\frac{1}{\sqrt{3}}$ 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 $p \rightarrow q = \neg p \vee q$
 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 |
| $f(x)$ | $\frac{1}{k}$ | $\frac{2}{2k}$ | $\frac{3}{6k}$ | $\frac{4}{5k}$ | $\frac{5}{6k}$ | $\frac{6}{10k}$ |
- 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 $y^2 = v$ and the curve $y = |x|$

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web what is back titration it is basically an analytical technique in chemistry which is performed backwards in the method that is a user needs to find the concentration of a reactant of a given unknown concentration by reacting it with an excess volume of another reactant of a known concentration

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web second you will titrate a sample of your aspirin acetylsalicylic acid with the standardized $NaOH$ to determine the moles of acid in a given weight of your product this will allow you to assess its purity assuming the aspirin is not contaminated with other acids the titration allows you to quantitatively determine the purity of your aspirin

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web determination of aspirin using back titration this experiment is designed to illustrate techniques used in a typical indirect or back titration you will use the naoh you standardized last week to back titrate an aspirin solution and determine the concentration of aspirin in a typical analgesic tablet you will be graded on your accuracy

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web 4 6 back titration 1 the active ingredient in aspirin tablets is acetylsalicylic acid $C_9H_8O_4$ the acetylsalicylic acid content of an aspirin tablet can be determined using a back titration four aspirin tablets were crushed and added to 25.0 cm³ of 1.00 mol l⁻¹ sodium hydroxide solution

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web pubchemdatabase aspirin cid 2244 here back titration was done to obtain the concentration of aspirin from known aspirin tablets amount of product expected was 0.5g measured yield obtained was 0.335g which shows there was an error in the determination

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web jul 6 2019 why aspirin is determined by back titration method consider using titration to measure the amount of aspirin in a solution using back titration the end point is more easily recognised in this reaction as it is a reaction between a strong base and

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web of this study is to analysis of aspirin and compares both direct titration and back titration techniques to the standard hplc technique in order to find alternative easy and cheaper procedure to assess the quality of active components of medications aspirin in

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