

- (b) Three persons, Aman, Bipin and Mohan attempt a Mathematics problem independently. The odds in favour of Aman and Mohan solving the problem are 3:2 and 4:1 respectively and the odds against Bipin solving the problem are 2:1. Find: [5]
- (i) The probability that all the three will solve the problem.
- (ii) The probability that problem will be solved.

Question 9

- (a) Find the locus of the complex number $z = x + iy$, satisfying relations $\arg(z - 1) = \frac{\pi}{4}$ and $|z - 2 - 3i| = 2$. Illustrate the locus on the Argand plane. [5]
- (b) Solve the following differential equation: [5]
- $$ye^y dx = (y^3 + 2xe^y) dy, \text{ given that } x = 0, y = 1.$$

SECTION B

Question 10

- (a) If \vec{a} and \vec{b} are unit vectors and θ is the angle between them, then show that [5]
- $$|\vec{a} - \vec{b}| = 2 \sin \frac{\theta}{2}.$$
- (b) Find the value of λ for which the four points A, B, C, D with position vectors $-\hat{j} - \hat{k}$; $4\hat{i} + 5\hat{j} + \lambda\hat{k}$; $3\hat{i} + 9\hat{j} + 4\hat{k}$ and $-4\hat{i} + 4\hat{j} + 4\hat{k}$ are coplanar. [5]

Question 11

- (a) Find the equation of a line passing through the point $(-1, 3, -2)$ and perpendicular to the lines: $\frac{x}{1} = \frac{y}{2} = \frac{z}{3}$ and $\frac{x+2}{-3} = \frac{y-1}{2} = \frac{z+1}{5}$. [5]
- (b) Find the equations of planes parallel to the plane $2x - 4y + 4z = 7$ and which are at a distance of five units from the point $(3, -1, 2)$. [5]

Question 12

- (a) If the sum and the product of the mean and variance of a Binomial Distribution are 1.8 and 0.8 respectively, find the probability distribution and the probability of at least one success. [5]
- (b) For A, B and C, the chances of being selected as the manager of a firm are 4 : 1 : 2, respectively. The probabilities for them to introduce a radical change in the marketing strategy are 0.3, 0.8 and 0.5 respectively. If a change takes place; find the probability that it is due to the appointment of B. [5]

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