(b) Three persons, Aman, Bipin and Mohan attempt a Mathematics problem **[5]** 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:

(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 **[5]** $\arg(z - 1) = \frac{\pi}{4}$ and $|z - 2 - 3i| = 2$. Illustrate the locus on the Argand plane.

(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]** $\left|\vec{a} - \vec{b}\right| = 2\sin\frac{\theta}{2}$.

(b) Find the value of λ for which the four points A, B, C, D with position vectors **[5]** $-\hat{j} - \hat{k};\ 4\hat{i} + 5\hat{j} + \lambda\hat{k};\ 3\hat{i} + 9\hat{j} + 4\hat{k}$ and $-4\hat{i} + 4\hat{j} + 4\hat{k}$ are coplanar.

Question 11

(a) Find the equation of a line passing through the point $(-1, 3, -2)$ and **[5]** perpendicular to the lines: $\frac{x}{1} = \frac{y}{2} = \frac{z}{3}$ and $\frac{x+2}{-3} = \frac{y-1}{2} = \frac{z+1}{5}$.

(b) Find the equations of planes parallel to the plane $2x - 4y + 4z = 7$ and which are **[5]** at a distance of five units from the point $(3, -1, 2)$.

Question 12

(a) If the sum and the product of the mean and variance of a Binomial Distribution **[5]** are 1·8 and 0·8 respectively, find the probability distribution and the probability of at least one success.

(b) For A, B and C, the chances of being selected as the manager of a firm are **[5]** 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.

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