

Section A

1. The coefficients a, b and c of the quadratic equation, $ax^2 + bx + c = 0$ are obtained by throwing a dice three times. The probability that this equation has equal roots is :

(1) $\frac{1}{54}$

(2) $\frac{1}{72}$

(3) $\frac{1}{36}$

(4) $\frac{1}{216}$

Ans. (4)

Sol. $ax^2 + bx + c = 0$

$$a, b, c \in \{1, 2, 3, 4, 5, 6\}$$

$$n(s) = 6 \times 6 \times 6 = 216$$

$$D = 0 \Rightarrow b^2 = 4ac$$

$$ac = \frac{b^2}{4} \text{ If } b = 2, ac = 1 \Rightarrow a = 1, c = 1$$

$$\text{If } b = 4, ac = 4 \Rightarrow a = 1, c = 4$$

$$a = 4, c = 1$$

$$a = 2, c = 2$$

$$\text{If } b = 6, ac = 9 \Rightarrow a = 3, c = 3$$

$$\therefore \text{probability} = \frac{5}{216}$$

2. Let α be the angle between the lines whose direction cosines satisfy the equations $l + m - n = 0$ and $l^2 + m^2 - n^2 = 0$. Then the value of $\sin^4 \alpha + \cos^4 \alpha$ is :

(1) $\frac{2}{3}$

(2) $\frac{1}{3}$

(3) $\frac{1}{3}$

(4) $\frac{1}{3}$

Ans. (3)

Sol. Given that $l + m - n = 0 \dots (1)$

$$l^2 + m^2 - n^2 = 0 \dots (2)$$

Squaring equation (1)

$$l^2 + m^2 + 2lm = n^2 \dots (3)$$

From equations (2) and (3)

$$lm = 0 \Rightarrow l = 0 \text{ or } m = 0$$

Case (1) $l = 0$

$$\Rightarrow m = n$$

$$\Rightarrow l^2 + m^2 + n^2 = 0$$

$$\Rightarrow m = n = \pm \frac{1}{\sqrt{2}}$$

$$\therefore (l, m, n) = \left(0, \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right) \text{ or } \left(0, \frac{-1}{\sqrt{2}}, \frac{-1}{\sqrt{2}}\right)$$

Case (2) $m = 0$

$$\Rightarrow l = n$$

$$\Rightarrow l^2 + m^2 + n^2 = 0$$

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