JEE MAIN – 2021

25th Feb Shift – I Maths Question Paper and Solutions

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) $\frac{5}{216}$

   Ans.(4)

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

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

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

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

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

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

   $a = 4, c = 1$

   $a = 2, c = 2$

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

   $\therefore$ 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) $\frac{3}{4}$

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

   (3) $\frac{5}{8}$

   (4) $\frac{3}{8}$

   Ans. (3)

   Sol. Given that $l + m = n$ .... (1)

   $l^2 + m^2 = n^2$ .... (2)

   Squaring equation (1)

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

   From equations (2) and (3)

   $lm = 0 \Rightarrow l = 0$ or $m = 0$

   Case (1) $l = 0$

   $\Rightarrow m = n$

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

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

   $\therefore (l, m, n) \equiv \left(0, \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ 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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