

### 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)  $\frac{1}{54}$   
 (3)  $\frac{1}{36}$

(2)  $\frac{1}{72}$   
 (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  $\alpha$  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  $\sin^2 \alpha + \cos^2 \alpha$  is :

(1)  $\frac{2}{3}$   
 (3)  $\frac{3}{4}$

(2)  $\frac{1}{2}$   
 (4)  $\frac{3}{8}$

Ans. (3)

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

$\Rightarrow m = n$

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

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

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

Case (2)  $m = 0$

$\Rightarrow l = n$

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

# Jee Question Paper With Solution

**Huangqi Zhang**



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## **Table of Contents Jee Question Paper With Solution**

1. Understanding the eBook Jee Question Paper With Solution
  - The Rise of Digital Reading Jee Question Paper With Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Jee Question Paper With Solution
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jee Question Paper With Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Question Paper With Solution
  - Personalized Recommendations
  - Jee Question Paper With Solution User Reviews and Ratings
  - Jee Question Paper With Solution and Bestseller Lists
5. Accessing Jee Question Paper With Solution Free and Paid eBooks
  - Jee Question Paper With Solution Public Domain eBooks
  - Jee Question Paper With Solution eBook Subscription Services
  - Jee Question Paper With Solution Budget-Friendly Options

6. Navigating Jee Question Paper With Solution eBook Formats
  - ePub, PDF, MOBI, and More
  - Jee Question Paper With Solution Compatibility with Devices
  - Jee Question Paper With Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jee Question Paper With Solution
  - Highlighting and Note-Taking Jee Question Paper With Solution
  - Interactive Elements Jee Question Paper With Solution
8. Staying Engaged with Jee Question Paper With Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jee Question Paper With Solution
9. Balancing eBooks and Physical Books Jee Question Paper With Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jee Question Paper With Solution
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Jee Question Paper With Solution
  - Setting Reading Goals Jee Question Paper With Solution
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jee Question Paper With Solution
  - Fact-Checking eBook Content of Jee Question Paper With Solution
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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