

## Probability and Statistics

### Question Bank

#### Unit - I

1. A class consists of 6 girls and 10 boys. If a committee of 3 is chosen at random from the class, find the probability that (a) 3 boys are selected (ii) exactly 2 girls are selected.
2. A sample space consists of 7 events namely:  $E_i, i=1,2,3,4,5,6,7$  with the assignment of probabilities 0.05, 0.20, 0.20, 0.25, 0.15, 0.10 and 0.05 respectively. Let  $A = \{E_1, E_4, E_6\}$ ,  $B = \{E_2, E_4, E_7\}$  and  $C = \{E_2, E_3, E_5, E_7\}$ . Then find the following :  $P(A)$ ,  $P(B)$ ,  $P(C)$ ,

$$P(A \cap B) \text{ and } P(A \cup B)$$

3. Fifteen numbered cards are there from 1 to 15, and two cards are chosen at random such that the sum of the numbers on both the cards is even. Find the probability that the chosen cards are odd-numbered.
4. In a certain assembly plant, three machines  $B_1$ ,  $B_2$  and  $B_3$  make 30%, 45% and 25% respectively of the products. It is known from the past experience that 2%, 3% and 2% of the products made by each machine, respectively are defective. What is the probability that the product is defective? If the product was chosen randomly and found to be defective, what is the probability that it was made by machine: (i) $B_1$  (ii) $B_2$  (iii) $B_3$
5. A random variable  $X$  has the following probability function

Values of $X$ , $x$	0	1	2	3	4	5	6	7
$P(X=x)$	0	$k$	$2k$	$2k$	$\frac{3}{k}$	$k^2$	$2k^2$	$7k^2+k$

- a) Find the value of  $k$
  - b) Evaluate:  $P(X < 6)$ ,  $P(X > 6)$  and  $P(0 < X < 5)$
  - c) Calculate the mean, variance and standard deviation of  $X$
6. The amount of bread (in hundreds of pounds)  $x$  that a certain bakery is able to sell in a day is found to be a numerical valued random phenomena, with a probability function as specified by  $f(x)$  and is given by:

# Introduction To Statistics Question Bank With Solution

**Rosina Ehmann**



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## **Table of Contents Introduction To Statistics Question Bank With Solution**

1. Understanding the eBook Introduction To Statistics Question Bank With Solution
  - The Rise of Digital Reading Introduction To Statistics Question Bank With Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Statistics Question Bank 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 Introduction To Statistics Question Bank With Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Statistics Question Bank With Solution
  - Personalized Recommendations
  - Introduction To Statistics Question Bank With Solution User Reviews and Ratings
  - Introduction To Statistics Question Bank With Solution and Bestseller Lists
5. Accessing Introduction To Statistics Question Bank With Solution Free and Paid eBooks

- Introduction To Statistics Question Bank With Solution Public Domain eBooks
  - Introduction To Statistics Question Bank With Solution eBook Subscription Services
  - Introduction To Statistics Question Bank With Solution Budget-Friendly Options
6. Navigating Introduction To Statistics Question Bank With Solution eBook Formats
    - ePub, PDF, MOBI, and More
    - Introduction To Statistics Question Bank With Solution Compatibility with Devices
    - Introduction To Statistics Question Bank With Solution Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Introduction To Statistics Question Bank With Solution
    - Highlighting and Note-Taking Introduction To Statistics Question Bank With Solution
    - Interactive Elements Introduction To Statistics Question Bank With Solution
  8. Staying Engaged with Introduction To Statistics Question Bank With Solution
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Introduction To Statistics Question Bank With Solution
  9. Balancing eBooks and Physical Books Introduction To Statistics Question Bank With Solution
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Introduction To Statistics Question Bank With Solution
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Introduction To Statistics Question Bank With Solution
    - Setting Reading Goals Introduction To Statistics Question Bank With Solution
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Introduction To Statistics Question Bank With Solution
    - Fact-Checking eBook Content of Introduction To Statistics Question Bank 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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