

MCA (SEM- II)
Probability and Statistics
(OCT-16)

Q.P. Code : 510902

(3 Hours)

[Total Marks : 100]

- N.B**
- (1) Question No1 is compulsory.
 - (2) Attempt any four questions out of remaining six questions.
 - (3) Assume necessary data but justify the same
 - (4) Figures to the right indicate full marks
 - (5) Use of scientific calculator is allowed

- Q1. (a)** [10]

Age in years	20-25	25-30	30-35	35-40	40-45	45-50
No. of policy holders	2	7	5	2	4	5

For the above frequency distribution Find

- i) Inter Quartile Range
- ii) Quartile Deviation and its coefficient
- iii) Bowley's coefficient of skewness
- iv) Range and its coefficient

- Q1. (b)** What is the probability that all vowels come together in the word "COMMERCE"? [05]

- Q1. (c)** Prove that geometric distribution is memory less [05]

- Q2. (a)** The joint probability density function of two dimensional random variable (X, Y) is given by [08]

$$f(x, y) = \begin{cases} 2-x-y & 0 \leq x \leq 1, 0 \leq y \leq 1 \\ 0 & \text{otherwise} \end{cases}$$

- i) Find marginal density functions of x and y .
- ii) Find the conditional density function of $x|y$ and $y|x$.
- iii) Find Expectation of (x) and Expectation (Y)

- Q2. (b)** If X and Y are independent Poisson variates show that the conditional distribution of X given $X+Y$ is binomial [07]

- Q2. (c)** Theory predicts that the proportion of beans, in four groups A, B, C, D should be 9:3:3:1. In an experiment among 1,600 beans, the number in the four groups was 882, 313, 287 and 118. Does the experimental result support the theory? [05]
 (tabulated value for χ^2 for 3 d.f. at 5% LOS is 7.81)

- Q3. (a)** Find the Karl Pearson's skewness coefficient for the following data [08]

Class Interval	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
frequency	11	25	61	93	70

TURN OVER

Probability And Statistics Question Paper Answers

J Elliott



Probability And Statistics Question Paper Answers:

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Table of Contents Probability And Statistics Question Paper Answers

1. Understanding the eBook Probability And Statistics Question Paper Answers
 - The Rise of Digital Reading Probability And Statistics Question Paper Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Probability And Statistics Question Paper Answers
 - 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 a Probability And Statistics Question Paper Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Probability And Statistics Question Paper Answers
 - Personalized Recommendations
 - Probability And Statistics Question Paper Answers User Reviews and Ratings

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