

**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  $\chi^2$  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

**D Siedentop**



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## Reviewing **Probability And Statistics Question Paper Answers**: Unlocking the Spellbinding Force of Linguistics

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