Roll No. ....

Total Pages : 3

MBA/M-16

11563

STATISTICS AND RESEARCH METHODOLOGY
Paper : HM-205

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *five* questions in all. Question No.1 in compulsory. Attempt remaining *four* questions from four modules (*one* question from each module). All questions carry equal marks.

Compulsory Question

1. (a) Discuss the importance of Statistics.

   (b) What is meant by if $r = +1$ and $r = -1$?

   (c) Briefly discuss Quota sampling.

   (d) What are Equally likely events? Explain and illustrate.

   (e) Highlight the motives for research.

   (f) Highlight the importance of problem identification in research.

   (g) What are the advantages and disadvantages of Observation method?

   (h) Which types of information can be obtained from the Balance-sheet of a company?

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MODULE–I

2. Discuss the meaning and scope of Statistics in trade and commerce. Also explain the limitations of Statistics.

3. You are given the following data for a bivariate analysis :

$\Sigma X = 130$, $\Sigma Y = 220$, $\Sigma X^2 = 2288$, $\Sigma Y^2 = 5506$, and $N = 10$.

Obtain the two regression equations and also find the value of correlation co-efficient.

MODULE–II

4. What are the advantages and limitations of Sampling? Using a suitable example, explain the Stratified sampling method for selecting a sample.

5. A bag contains 10 white, 6 red and 4 green balls. 3 balls are drawn (without replacement). Find the probability of getting (i) One ball of each colour, (ii) No white ball, (iii) Exactly two red balls, and (iv) at least two green balls.

MODULE–III

6. What are the essentials of a Research? Highlight the principles and types of Research.

7. Which factors should be considered while choosing a Research problem? Discuss the process of Problem formulation.

MODULE–IV

8. Discuss the merits and demerits of Questionnaire method. Which is a good Questionnaire ?

9. Write notes on the following :

   (a) Bibliography.

   (b) Footnotes.

   (c) Tabulation.

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