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MCO-003

MASTER OF COMMERCE

Term-End Examination

December, 2018

MCO-003 : RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS

Time : 3 hours

Maximum Marks : 100

Weightage : 70%

Note : Attempt any five questions. All questions carry equal marks.

1. Explain Chi-square test as a goodness of fit. Also, explain conditions for applying Chi-square test.   10+10

2. (a) What do you understand by point estimation, and interval estimation.   10

    (b) Explain different approaches to probability with examples.   10

3. (a) Discuss different methods of non-random sampling with examples of each method.   10

    (b) Enumerate sampling and non-sampling errors.   10

4. Discuss different types of Interval scales and their applicability in business research.   20

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5. (a) Explain the purpose of splicing and Deflating of index numbers with suitable examples. **10**

(b) Discuss the importance of Visual Presentation of Data. **10**

6. (a) Explain the significance of research in Business. **10**

(b) Explain the significance of following terms : **5+5**

(i) Standard error of estimate

(ii) Coefficient of determination.

7. Draw : (a) Histogram, and (b) Frequency polygon for the following data and do the necessary description of the data. **10+10**

Profit (Rs in Crores)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of companies	2	5	10	25	50	20	8

8. Write short notes on **any two** of the following : **10+10**

(a) t-test for Independent Samples

(b) Statistical Fallacies

(c) Components of Research Report

(d) Poisson Distribution

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