

Roll No.

Printed Pages : 2

13240**MMSR/D-13****BUSINESS STATISTICS****Paper-CP-102***Time allowed : 3 hours]**[Maximum marks : 70**Note : Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.*

1. Compulsory Question. Explain Briefly : 14
 - (a) Coefficient of Determination
 - (b) Census Vs. Sample
 - (c) Three properties of Binomial distribution.
 - (d) Skewness
 - (e) Hypothesis testing
 - (f) Splicing
 - (g) Acceptance sampling
2. (a) Define conditional Probability.
 - (b) The incidence of disease in an industry is such that the workers have 20% chances of suffering from it. What is the probability that out of six workers four or more will contract disease ? 14
3. Discuss various Non-Random sampling methods alongwith their merits and demerits. 14
4. You are working as a purchase manager for a company. The following information has been supplied to you by two

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manufacturers of electric bulbs.

	Company A	Company B
Mean Life (in hours)	1300	1288
Std. Deviation (in hours)	82	93
Sample size	100	100

Which brand of bulbs are you going to purchase if you desire to take a risk of 5% ?

5. Differentiate the following : 14
 - (a) Correlation and Regression Analysis.
 - (b) Parametric tests and Non-Parametric test.
6. Write a detailed note on statistical quality control. 14
7. (a) What is an index number ? Discuss its importance in Business and Industry. 14
 - (b) Explain :
 - (i) Time Reversal test
 - (ii) Factor Reversal test
 - (iii) Circular test
8. Write notes on following : 14
 - (a) Time series Analysis.
 - (b) Projection of Trend.

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