

4/EH-28 (iv) (Syllabus-2015)

2 0 1 8

(April)

STATISTICS

(Elective/Honours)

(Applied Statistics)

[STEH-4 (TH)]

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. (a) Write briefly a note on different sources of demographic data. 4
- (b) What is 'life table'? What purpose does it serve? Define all the notations and terminology related to 'life table'. 2+2+4=8
2. What do you mean by fertility? Describe briefly different measures of fertility and write their merits and demerits. 12

(Turn Over)

(2)

UNIT—II

3. (a) What do you mean by process control and product control? 4
- (b) What is control chart? Describe briefly about the construction of control chart and its uses. 4
- (c) Write a note on assignable and non-assignable causes of variations. 3
4. Write short notes on the following : $5\frac{1}{2}+5\frac{1}{2}=11$
- (a) *p*-chart and *c*-chart
- (b) Single-sampling plan and double-sampling plan

UNIT—III

5. What is an index number? Describe briefly the problems that are involved in the construction of an index number of prices. Write the uses of index number. 11
6. Describe different methods of construction of index numbers. Write the limitations of index number. 11

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(Continued)

(3)

UNIT—IV

7. Describe different methods of measuring seasonal variations in a time series. Also write their merits and demerits. 11
8. (a) Describe Pareto's law of income distribution. 3
- (b) Define Lorenz curve and Gini's coefficient. 4
- (c) What do you mean by price and income elasticity of demand? 4

UNIT—V

9. What is official statistics? What purpose does it serve? Write a note on present official statistical system of India. 11
10. Write short notes on the following : $5\frac{1}{2}\times 2=11$
- (a) Agricultural statistics of India
- (b) Financial and banking statistics

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