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

2022

(May/June)

(Elective/Honours)
(Applied Statistics)

[STEH-4(TH)]

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT—I

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- 1. (a) Explain in detail crude death rate and age-specific death rate. 3+3=6
 - (b) Explain briefly the direct and indirect methods of finding standardized death rates.
- 2. What is meant by fertility? Describe briefly crude birthrate, general fertility rate and total fertility rate as measures of fertility and also mention their merits and demerits.

2+10=12

6

(Turn Over)

UNIT—II

- 3. (a) What do you understand by statistical quality control (SQC)? Discuss the causes of variation in quality. 2+4=6
 - (b) What is a control chart? Briefly describe the construction of a control chart and mention its uses. 1+4=5
- 4. (a) Explain the concepts of producer's risk and consumer's risk.
 - (b) Describe the double sampling. Discuss its merits and demerits. 3+4=7

UNIT—III

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- 5. What is an index number? Discuss the problems involved in the construction of index number. Write down the uses of index number.

 2+6+3=11
- 6. (a) What is an ideal index number? Show that Fisher's index number is an ideal index number.

 1+4=5
 - (b) Compare the following concepts: 3+3=6
 - (i) Fixed base index and chain base index
 - (ii) Laspeyres' price index and Paasche's price index

UNIT-IV

- 7. (a) Define a time series. Briefly discuss the different components of a time series.

 2+5=7
 - (b) Explain the different models of a time series.
- 8. (a) Define price elasticity of demand and income elasticity of demand. Point out their uses in economic analysis. 4+3=7
 - (b) Describe Pareto's law of income distribution.

UNIT-V

- 9. Explain the methods of collection of official statistics in India, their reliability and limitations.
- 10. Write short notes on the following: $5\frac{1}{2}+5\frac{1}{2}=11$
 - (a) Industrial statistics

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(b) Statistics of transport and communications

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