

Roll No.

Total No. of Pages : 2

1(ADS)1
STATISTICS—II
XI—O

Time : Three Hours]

[Maximum Marks : 100

- Note :-** (i) Each question or part thereof shall begin on a fresh page.
(ii) Your answers should be precise and coherent.
(iii) Attempt **FOUR** questions in all, covering at least **TWO** sections. All questions carry equal marks.

SECTION—A (Industrial Statistics)

1. What is a control chart ? Describe different kinds of control chart and explain how control charts help to control quality of a manufactured product.
2. Explain fully the techniques of 'Operations Research' and 'Linear Programming' and discuss their use in industry.

SECTION—B (Economic Statistics)

3. What are index numbers and what are their different types ? Explain how cost of living index numbers are constructed.
4. Define Time Series. What are various components of a time series ? Explain how we measure Trend.

SECTION—C (Educational Statistics)

5. Distinguish clearly, giving suitable examples, between :
 - (a) Standard Scores and Normal Scores
 - (b) Speed Tests and Power Tests.

6. What are the various Learning models ? Explain the need and importance of measurement of learning and forgetting.

SECTION—D (Demography and Vital Statistics)

7. Distinguish between Population Statistics and Vital Statistics and explain the importance of the two in a modern economy, giving suitable examples.
8. What is a Life Table ? Discuss fully its properties and uses with special reference to insurance activity.