



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

## BUSINESS STATISTICS HSSC-II

### SECTION – A (Marks 10)

Time allowed: 15 Minutes

**NOTE:** Section–A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 15 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

**Q. 1** Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) A characteristic that is qualitative in nature is a/an \_\_\_\_\_  
A. Constant B. Variable  
C. Attribute D. Parameter
- (ii) Continuous variable can be measured at \_\_\_\_\_  
A. Specific points B. All possible points  
C. No points D. Integer points
- (iii) Census reports for public are sources of \_\_\_\_\_  
A. Primary data B. True data  
C. Secondary data D. Qualitative data
- (iv) A heading at the top of the table which describes contents of the table is called \_\_\_\_\_  
A. Stub B. Title  
C. Caption D. None of these
- (v) Histogram is a graph of \_\_\_\_\_  
A. Time series B. Frequency distribution  
C. Relative frequency distribution D. None of these
- (vi) The mean, median and mode of constant 'a' are \_\_\_\_\_  
A. 0 B.  $a/2$   
C. a D.  $a^2$
- (vii) The mean of a symmetrical distribution is \_\_\_\_\_, if its median and mode both are 15.25.  
A. 0 B. 10  
C. 15.25 D. None of these
- (viii) If all the values are of equal importance, the index numbers are \_\_\_\_\_  
A. Weighted B. Un-weighted  
C. Composite D. Value index
- (ix) A base year should be free from \_\_\_\_\_  
A. Floods B. Strikes  
C. Wars D. All of these
- (x) The probability of an event can not be \_\_\_\_\_  
A. 1 B. Less than one  
C. 0 D. Negative

**For Examiner's use only:**

**Total Marks:**

10

**Marks Obtained:**



# BUSINESS STATISTICS HSSC-II

Time allowed: 2:15 Hours

Total Marks Sections B and C: 40

**NOTE:** Answer any eight parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 24)

**Q. 2** Attempt any EIGHT parts. The answer to each part should not exceed 3 to 4 lines. ( 8 x 3 = 24 )

- (i) Write any three limitations of Statistics.
- (ii) Define Discrete variable and Continuous variable.
- (iii) Name the methods of collecting primary data.
- (iv) Define Class Interval.
- (v) Give two properties of Arithmetic Mean.
- (vi) Write any two qualities of an Average.
- (vii) Define an Index number.
- (viii) What do you understand by Base Period? How is it selected?
- (ix) If Laspeyre's Index No. = 115 and Fisher's Index No. = 112.98, find the Paasche's Index No.
- (x) Define Equally likely events.
- (xi) Write sample space for the experiment "Toss a pair of coins".

## SECTION – C (Marks 16)

**Note:** Attempt any TWO questions. All questions carry equal marks. ( 2 x 8 = 16 )

**Q. 3** Given  $U = (X - 87)/5$ . Find Arithmetic Mean using:

- (i) Step deviation Method
  - (ii) Direct Method
- U: -3, -2, -1, 0, 1, 2, 3, 4, 5, 6  
F: 1, 6, 17, 29, 20, 17, 13, 10, 6, 3

**Q. 4** Construct chain indices for the following years taking 1996 as base:

| Year | Price in Rs. (40 kg) |      |       |
|------|----------------------|------|-------|
|      | Wheat                | Rice | Maize |
| 1996 | 160                  | 400  | 155   |
| 1997 | 165                  | 410  | 160   |
| 1998 | 168                  | 425  | 162   |
| 1999 | 170                  | 435  | 172   |
| 2000 | 175                  | 500  | 180   |

**Q. 5** Two cards are drawn at random from a well-shuffled Pack of 52 cards. Find the probability that:

- (i) Both are of the same colour
- (ii) Both are of the different colours