



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) The word Statistics may have been derived from the German word _____
A. Status B. Statistik
C. Statistique D. Statista
- (ii) The data, which have not undergone any statistical treatment are _____
A. Primary data B. Secondary data
C. Discrete data D. Continuous data
- (iii) If the data are classified according to their time of occurrence then this procedure is called _____
A. Multi-way classification B. Chronological classification
C. Geographical classification D. Spatial classification
- (iv) The total of relative frequencies is always equal to _____
A. -1 B. 0.5
C. 1 D. 100
- (v) In symmetrical distribution mean, median and mode are always _____
A. Negative B. Zero
C. Different D. Equal
- (vi) Median is a/an _____
A. Calculating average B. Positional average
C. Exact average D. None of these
- (vii) Index numbers are called _____
A. Economic barometer B. Statistical barometer
C. Mathematical barometer D. Physical barometer
- (viii) The most suitable average for index number is _____
A. Arithmetic Mean B. Geometric Mean
C. Median D. Mode
- (ix) The probability of an event always lies between _____
A. -1 and 0 B. -1 and 1
C. 0 and +1 D. -0.5 and 0.5
- (x) The probability of drawing red card out of 52 cards is _____
A. 1/2 B. 1/4
C. 1/13 D. None of these

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 down the applications of Statistics in business.
- (ii) Differentiate between Primary and Secondary data.
- (iii) The following data show the number of absent students during the month of November 2011 from I. Com class: 3,4,5,6,7,1,0,2,3,4,5,7,8,7,2,1,5,6,7,8,9,10,6,7,3
Make a Frequency distribution taking class interval as one.
- (iv) What is meant by Graph?
- (v) The following data indicate the size of shoes sold at a store during the given week.
Find modal size of shoes.

Size of shoes	4½	5	5½	6	6½	7	7½	8
No. of pairs sold	2	5	7	20	25	17	15	4

Also find Median.

- (vi) Write down the desirable qualities of a good average.
- (vii) If in a certain distribution mean is 45 and median is 50 then find mode. Also give the assumption you take regarding the shape of distribution.
- (viii) Differentiate between Fix base and Chain base method.
- (ix) Find Price relatives for the data given below, using ' average of last three year' as base:

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998
Price	15	16	20	22	24	23	25	15	20

- (x) Two unbiased coins are tossed once. Find the following:
 - a. Make a sample space
 - b. Probability that two heads appeared
 - c. Probability that exact one head appeared
- (xi) A fair cubical die is rolled once. What is the probability of obtaining:
 - a. Six
 - b. An even number
 - c. The number greater than 4

SECTION – C (Marks 16)

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

Q. 3 Calculate Arithmetic Mean, Median and Mode of the following data:

Groups	0-4	5-9	10-14	15-19	20-24	25-29
Frequency	20	23	30	21	17	19

Q. 4 Construct index numbers for 1995 from the following data taking 1990 as base by:

- (i) Laspeyre's Method
- (ii) Paasche's Method
- (iii) Fisher's Ideal Method

Commodity	1990		1995	
	Price	Quantity	Price	Quantity
A	10	120	12	100
B	8	150	10	130
C	12	80	13	70
D	15	60	20	50

Q. 5 A marble is drawn at random from a box containing 10 red, 30 white, 20 blue and 15 orange marbles.

What is the probability that it is:

- (i) White
- (ii) Orange or red
- (iii) Not red or blue
- (iv) Red, white or blue