



BUSINESS STATISTICS HSSC-II

56

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) Define sample and population.
- (ii) Define descriptive and inferential statistics.
- (iii) Define histogram and histogram.
- (iv) Describe any three qualities of a good statistical table.
- (v) Find arithmetic mean given that: $x = 10 + 5u$; $\sum fu = -46$; $\sum f = 125$
- (vi) For a moderately skewed distribution mode=60 and median = 30 find mean.
- (vii) The logarithm of five values of x are: 1.8062, 1.2304, 1.6532, 1.5798 and 1.4314 find \bar{x} .
- (viii) Define price relative and link relative.
- (ix) For the given link relatives 100, 120, 102, 118 and 112, find chain indices.
- (x) Define simple event and composite event.
- (xi) A pair of dice is rolled find the probability that both faces are same.

SECTION – C (Marks 16)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 8 = 16)

Q. 3 Find mean, median and mode for the following data: (3+3+2)

Classes	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64
f	3	10	21	15	1	4

Q. 4 Construct index number for 1995 taking 1990 as base year using: (3+3+2)

- (i) Laspayre's index
- (ii) Paasche's index
- (iii) Fisher ideal index

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 Three coins are tossed. Find the following probabilities: (3+3+2)

- (i) At most one head appear
- (ii) Same faces appear.
- (iii) Head on the first coin.