

BUSINESS STATISTICS HSSC-II



SECTION - A (Marks 10)

Time allowed: 15 Minutes **Version Number** Section - A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which 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 Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark. The data which have not undergone through any statistical process are called: 1) Primary data В. Discrete data C. Secondary data D. Qualitative data 2) A measure computed from sample data is called: A. Parameter B. Statistic C. Statistics D. Data 3) Cumulative frequency distribution is graphically presented by: A. Ogive В. Histogram C. Bar chart D. Pie chart 4) The number of observations falling in a particular class is known as: Class frequency В. A. Class mark C. Class limit D. Midpoint If $\Sigma(x-11)=6$, $\Sigma(x-30)=19$ and $\Sigma(x-17)=0$, then mean of x is: 5) A. 11 30 C. 17 D. 19 6) Sum of deviations taken from mean is: A. Positive В. Zero D. Minimum C. Negative If Laspayre's index = 116 and Paasche's index=110 then Fisher's index is: 7) A. 110.96 B. 116.00 113.69 112.96 C. D. In chain base method the base period is: 8) A. Fixed В. Constant C. Not fixed D. Zero n(n-1)(n-2)......3.2.1 is equal to: 9)

 Σn

n!

-1

Probability of a sure event is equal to:

A.

C.

A.

C.

10)

В.

D.

В.

D.

 $\Sigma(n)(n-1)$

n(n-1)

1

0.5



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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 historigram.
- (iv) Describe any three qualities of a good statistical table.
- (v) Find arithmetic mean given that: x = 10 + 5u; $\Sigma fu = -46$; $\Sigma f = 125$
- (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 \overline{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.

 $(2 \times 8 = 16)$

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	19	990	1995		
<u>-</u>	Price	Quantity	Price	Quantity	
Α	10	120	12	100	
В	8	150	10	130	
С	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.

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