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Answer Sheet No. _____

Sig. of Candidate. _____

Sig. of Invigilator. _____

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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) Statistics tests the laws of _____.
- A. Literary nature
B. Social science
C. Pure sciences
D. Both B and C
- (ii) What is the presentation of available data in ascending or descending order of magnitude called?
- A. Classification
B. Tabulation
C. Array
D. Random
- (iii) The arrangement of data according to its time of occurrence is known as _____.
- A. Chronological classification
B. Spatial classification
C. Multiway classification
D. None of these
- (iv) Arithmetic mean of two positive numbers "a" and "b" is _____.
- A. $\frac{2ab}{a+b}$
B. $\frac{a+b}{2}$
C. \sqrt{ab}
D. $a+b$
- (v) If mode=15, median = 12, then income is _____.
- A. 12
B. 10.5
C. 16
D. 8
- (vi) What is the most suitable average for index number?
- A. Mode
B. G.M.
C. A.M.
D. Median
- (vii) When the price of a year is divided by the price of a particular year we get _____.
- A. Chain relative
B. Simple relative
C. Link relative
D. Value relative
- (viii) The probability of an even lies between _____.
- A. 0 and 1
B. -1 and 1
C. 0 and -1
D. 1 and -1
- (ix) Which of the following is **WRONG**?
- A. $P(A) = \frac{2}{6}$
B. $P(A) = \frac{7}{6}$
C. $P(A) = \frac{1}{3}$
D. $P(A) = \frac{2}{4}$
- (x) To collect the data from a businessman about his income we use _____.
- A. Direct personal interview
B. Investigation through questionnaires
C. Indirect oral investigation
D. Estimate through correspondents

For Examiner's use only:

Total Marks:

10

Marks Obtained:

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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) What is the importance of Statistics in Business.
- (ii) What are the limitations of Statistics?
- (iii) Define any three of the following:
(a) Class limits (b) Class boundaries (c) Class marks (d) Class interval
- (iv) Differentiate between Classification and Tabulation.
- (v) What are the desirable characteristics of a good statistical table?
- (vi) For a certain distribution if $\Sigma(x-15) = 5$, $\Sigma(x-16) = 0$, $\Sigma(x-21) = -21$ what is the value of mean and why?
- (vii) A man purchased 120 shares of a firm worth Rs.30 each. He also purchased 80 shares of another firm worth Rs. 25 each. Find the avg. price of a share.
- (viii) In a symmetrical distribution mode is 40. Find mean and median.
- (ix) What are the steps involved in the construction of an index number?
- (x) What is the probability of getting a total of 5 or 10 when a pair of dice is tossed?
- (xi) What is the multiplication rule for two dependent events.

SECTION – C (Marks 16)

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

Q. 3 The following table gives the details of monthly budget of two families. Represent it by a suitable diagram:

Item of Expenditure	Family A	Family B
Food	Rs.600	Rs.800
Clothing	Rs.100	Rs.100
House rent	Rs.400	Rs.500
Fuel +lighting	Rs.100	Rs.100
Misc	Rs.300	Rs.500

Q. 4 Compute Median, Mode and Arithmetic mean for the following:

Diameter (inches)	Frequency
0.7312-----0.7313	10
0.7314-----0.7315	15
0.7316-----0.7317	12
0.7318-----0.7319	25
0.7320-----0.7321	30
0.7322-----0.7323	8
0.7324-----0.7325	2

Q. 5 Calculate Index number for 1991, 1992, 1993, 1994 taking 1990 as base using:

- (i) Mean (ii) Median as an average:

Year	Price (Rs.)			
	Wheat	Rice	Cotton	Ghee
1990	12.00	3.00	4.20	4.00
1991	12.50	3.25	4.90	4.25
1992	13.50	3.50	5.25	5.00
1993	15.00	3.75	5.60	5.62
1994	16.00	3.60	5.75	5.00