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 data obtained from college record is:

   A. Primary   B. Secondary

   C. Grouped   D. Qualitative

(ii) A characteristic that varies from one object to another is called:

   A. Attribute   B. Variable

   C. Constant   D. Statistic

(iii) The size of class is also called:

   A. Class interval   B. Class frequency

   C. Class mark   D. Class boundary

(iv) A graph of Time Series is called:

   A. Ogive   B. Histogram

   C. Historigram   D. Scatter diagram

(v) Total angle of pie chart is:

   A. $270°$ B. $300°$

   C. $320°$ D. $360°$

(vi) Step deviation method is used for calculation of:

   A. Median   B. Mode

   C. Mean   D. Quartiles

(vii) If mean of 10 observations is 20, then their sum will be equal to:

   A. 100   B. 200

   C. 10   D. 20

(viii) In chain base method, the base period is:

   A. Fixed   B. 1st year

   C. Last year   D. Previous

(ix) If all the values are of equal importance, the index numbers are called?

   A. Weighted   B. Unweighted

   C. Simple   D. Value

(x) When two dice are rolled then total number of possible outcomes will be:

   A. 36   B. 6

   C. 16   D. 216

For Examiner's use only:

Total Marks: 10

Marks Obtained:

----- 2HA 1718 -----

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)   Differentiate between descriptive and inferential statistics.

(ii)   What is classification?

(iii)   The following data shows the number of students absent during the month of September 2015 from 2nd year Statistics class.

5, 3, 7, 4, 6, 1, 4, 2, 3, 5, 8, 4, 7, 1, 5, 2, 6, 8, 7, 9, 3, 10, 6, 5, 0

Make a frequency distribution taking one as class interval.

(iv)   What are different methods for collection of Primary data?

(v)   What is Histogram?

(vi)   Given that $x = 10 + 5u$, $\sum fu = 46$, $\sum f = 125$. Find arithmetic mean.

(vii)   Define median.

(viii) Distinguish between simple and composite index numbers.

(ix)   If Laspeyer's index is 120 and Paasche's index is 110, then find Fisher's index.

(x)   Define random experiment.

(xi)   How many different permutations can be formed from the word "PAKPATTAN"

SECTION – C (Marks 16)

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

Q. 3   Determine median and mode from the following frequency distribution.

Age last birthday	15 – 19	20 – 24	25 – 29	30 – 34	35 – 39	40 – 44
No. or persons	4	20	38	24	10	4

Q. 4   Compute Chain indices from the following data of prices.

Year	Price Per Unit (Rs)			
	Wheat	Sugar	Ghee	Cotton
1965	16	40	200	50
1966	20	50	250	60
1967	18	70	240	80
1968	25	80	300	100

Q. 5   Show that in a single throw with two dice, the chance of throwing more than 7 is equal to that of throwing less than 7 and hence find probability of throwing exactly 7.

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