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Version No.				
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ROLL NUMBER						

BUSINESS STATISTICS
HSSC–II
SECTION – A (Marks 10)

Time allowed: 15 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed.

Do not use lead pencil.

حصہ اوّل لازمی ہے۔ اس کے جوابات اسی صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Answer Sheet No. _____

ہر سوال کے سامنے دیے گئے، کریکولم کے مطابق درست دائرہ کو پُر کریں۔ **Invigilator Sign.** _____

Fill the relevant bubble against each question according to curriculum: **Candidate Sign.** _____

	Question	A	B	C	D	A	B	C	D
1.	A data collected first time is called:	Primary data	Secondary data	Grouped data	Fictious data	○	○	○	○
2.	Height of students in a class is an example of:	Discrete variable	Continuous variable	Qualitative variable	Fixed variable	○	○	○	○
3.	Graph of a frequency distribution is called:	Ogive	Historigram	Histogram	Line chart	○	○	○	○
4.	The systematic arrangement of data into rows and columns is called:	Classification	Tabulation	Array	Frequency distribution	○	○	○	○
5.	The modal letter (s) of word "STATISTICS":	S only	T only	S and T both	I	○	○	○	○
6.	Price relative is percentage ratio of current year price and:	Current year quantity	Base year quantity	Base year price	Preceding year price	○	○	○	○
7.	If all the values are of equal importance, the index number is called:	Weighted index number	Un-weighted index number	Simple index number	Composite index number	○	○	○	○
8.	An index number that measures the average relative change in the prices of a single variable is called:	Price index number	Volume index number	Simple index number	Composite index number	○	○	○	○
9.	If three coins are tossed, the total number of possible outcomes of a sample space will be:	3	6	8	9	○	○	○	○
10.	The probability of an event always lies between:	-1 to 1	-1 to 0	0 to 1	1 to 100	○	○	○	○

BUSINESS STATISTICS HSSC–II

10/02/2026PC-13

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Time allowed: 2:15 Hours **Total Marks Sections B and C: 40**

SECTION – B (Marks 24)

Q. 2 Answer any EIGHT parts briefly. **(8 x 3 = 24)**

(i) Differentiate between 'descriptive' and 'inferential' statistics.

(ii) Calculate class boundaries, mid-point and cumulative frequency of the following distribution:

Classes	5-9	10-14	15-19	20-24
Frequency	1	5	6	4

(iii) What is meant by arithmetic mean, median and mode?

(iv) Calculate median and mode of: 5, 7, 2, 9, 5, 8, 3, 6.

(v) For a frequency distribution, if Arithmetic Mean=40 and Median = 38, find the value of mode.

(vi) Calculate arithmetic mean by short cut method from the following deviations:

D=X-50	-20	-10	0	10	20	30	40

(vii) If $\sum P_1q_0 = 1760$, $\sum P_0q_0 = 1430$, $\sum P_1q_1 = 2110$, $\sum P_0q_1 = 1715$. Compute Laspeyres, Paasche and Fisher price index numbers.

(viii) Differentiate between fixed base and chain base method in index number.

(ix) Compute price index number taking 2010 as base.

Year	2010	2011	2012	2013	2014	2015
Price	12	18	24	30	36	42

(x) A fair cubical die is rolled once. Find the probability of **(a)** odd number **(b)** number more than 1 **(c)** number divisible by 2.

(xi) What is meant by: **(i)** Random experiment **(ii)** Sample space

SECTION – C (Marks 16)

Note: Attempt any TWO questions. **(2 x 8 = 16)**

Q. 3 Calculate Arithmetic Mean, Median and Mode from the following frequency distribution: **(08)**

Classes	10 – 14	15 – 19	20 – 24	25 – 29	30 – 34	35 – 39
Frequency	1	4	8	7	6	4

Q. 4 Compute chain indices from the following prices using **(i)** Arithmetic mean **(ii)** Median as an average. **(08)**

Years	**Prices**			
	Wheat	**Rice**	**Sugar**	**Oil**
1990	60	40	10	50
1991	65	50	12	54
1992	70	60	15	60
1993	80	70	20	75

Q. 5 A pair of fair dice are thrown once. Find the probability that: **(08)**

(i) The sum of the numbers on both upper faces is 9.

(ii) The sum of the numbers on both upper faces is an even number.

(iii) The same number appears on both faces.

(iv) The sum of the numbers on both upper faces is less than 6.