

B.B.A. SEM – II (2015 CBCS COURSE) : WINTER - 2017

SUBJECT : BUSINESS STATISTICS – I

Day : **Saturday**
Date : **18/11/2017**

W-2017-1523

Time **10.00 AM TO 01.00 PM**
Max. Marks : 100

N.B.

- 1) Attempt any **FOUR** questions from Section – I and any **TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.
- 4) Use of non-programmable **CALCULATOR** is allowed.

SECTION – I

Q.1 Explain various types of Index Numbers. Also explain the uses and (15) importance of Index Numbers.

Q.2 Present the following data of the percentage marks of 60 students in the form (15) of frequency table with classes as 0–10, 10–20, 20–30-----

41	17	83	63	54	92	60	58	70	06	67	82
33	44	57	49	34	73	54	63	36	52	32	75
60	33	09	72	28	30	42	93	43	80	03	32
57	67	24	64	63	11	35	82	10	23	00	41
60	32	72	52	92	88	62	55	60	33	40	57

Also calculate less than cumulative frequency.

Q.3 Calculate Q_3 , D_3 and P_{10} from the following data: (15)

Classes	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25
Frequency	7	18	25	30	20

Q.4 Construct Index Numbers of Price from the following data by applying: (15)

- (i) Laspeyre's method
- (ii) Paasche's method
- (iii) Fisher's Ideal method

Commodity	Base Year 2010		Current Year 2016	
	Price	Quantity	Price	Quantity
A	8	80	10	120
B	10	120	12	96
C	5	40	5	50
D	4	56	3	60

Q.5 Write short notes on **ANY THREE** of the following: (15)

- a) Control charts
- b) Sources of data
- c) Skewness and Kurtosis
- d) Measures of Central Tendency

P.T.O.

SECTION – II

Q.6 a) Draw Histogram and Frequency Polygon for the following data: **(10)**

Marks	10–20	20–30	30–40	40–50	50–60	60–70
No. of Students	10	30	50	60	45	15

b) Explain various types of Variation in brief. **(10)**

Q.7 Calculate Coefficient of Variation for the following data: **(20)**

Age (Under)	10	20	30	40	50	60	70	80
No. of Persons dying	15	30	53	75	100	110	115	125

Q.8 a) Explain the use of Statistics in business. **(10)**

b) Calculate mean deviation and its coefficient from median for the following data: **(10)**

Class	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80
Frequency	5	8	12	15	20	14	12	6

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