B.B.A. SEM – II (2015 CBCS COURSE) : SUMMER - 2018
SUBJECT : BUSINESS STATISTICS – I

Day : **Monday**
Date : **07/05/2018**

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

S-2018-1599

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 Define primary and secondary data. Explain various data collection methods. **(15)**

Q.2 Prepare a frequency distribution for the following observations: **(15)**

15	45	40	42	65	69	40	35	37	40
75	75	80	81	50	60	62	68	70	42
31	45	42	43	25	26	31	32	78	45
60	62	58	43	55	56	78	80	81	62
75	62	68	45	69	70	50	72	56	58

Use classes as : 15 – 25, 25 – 35, 35 – 45, ... Also calculate both the types of cumulative frequencies.

Q.3 Calculate mean, median and mode for the following data: **(15)**

Marks (Below)	10	20	30	40	50	60	70
No. of Students	5	10	14	20	26	40	50

Q.4 Calculate : **(i)** Laspeyre's Index Number **(15)**
(ii) Paasche's Index Number
(iii) Fisher's Ideal Index Numbers for the following data:

Items	Base Period		Current Period	
	Price	Quantity	Price	Quantity
A	12	10	15	12
B	15	7	20	05
C	24	05	20	09
D	05	16	05	14

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

a) Control charts
b) Measures of dispersion
c) Importance of Index numbers
d) Importance of Diagrammatic and Graphical representation of data.

P.T.O.

SECTION – II

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

Marks	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80
No. of Students	8	12	22	35	60	52	40	10

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

Size	0–10	10–20	20–30	30–40	40–50	50–60	60–70
No. of Students	7	12	18	25	16	14	8

Q.7 From the prices of shares of X and Y below find out which is more stable in value. **(20)**

X	35	54	52	53	56	58	52	50	51	49
Y	108	107	105	105	106	107	104	103	104	101

Q.8 **a)** How statistics is useful in business domain? Explain with suitable examples. **(10)**

b) Compute coefficient of quartile deviation for the following data: **(10)**

Marks	10	20	30	40	50	60
No. of Students	4	7	15	8	7	2

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