

B.B.A. (2010 COURSE) SEM- II : SUMMER - 2018
SUBJECT: BUSINESS STATISTICS - I

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

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 70

S-2018-1651

N.B.:

- 1) **Q. No. 1 is COMPULSORY.**
- 2) Attempt any **FOUR** questions from **Q. No. 2 to Q. No. 7.**
- 3) Each question carries **14** marks.
- 5) Use of non programmable **CALCULATOR** is allowed.

- Q.1** a) Explain the various methods used in the collection of primary data.
b) "Statistics play an important role not only in the study of Economics and Commerce but also in actual business". Elaborate this statement, with appropriate examples.

- Q.2** a) What are the different methods of a graphical presentation of data? Explain them.
b) Draw a Histogram of the frequency distribution given below:

Classes	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	35	70	80	100	45	20

- Q.3** Calculate Mean, Median and Mode for the following data:

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35
No. of Students	1	2	6	8	10	9	2

- Q.4** a) Compute the Coefficient of Quartile Deviation from the following data:

Marks	10	20	30	40	50	80
No. of Students	4	7	15	8	7	2

- b) Prepare a frequency table with class intervals 20-24, 25-29, 30-34, and so on from the following data:

21	20	55	39	48	46	36	54	42	30
29	42	32	40	34	31	35	37	52	44
39	45	37	33	51	53	52	46	43	47
41	26	52	48	25	34	37	33	36	27
54	36	41	33	23	39	28	44	45	38

P. T. O.

- Q.5** a) Compute Index Numbers of Prices from the following data by applying
 i) Laspeyres Method
 ii) Paasche Method

Commodity	Year 2011		Year 2012	
	Price	Quantity	Price	Quantity
A	2	40	5	75
B	4	16	8	40
C	1	10	2	24
D	5	25	10	60

- b) Discuss the use of Statistical Quality Control and Control Charts.

- Q.6** The expenditure of 1000 families is given below:

Expenditure in Rs	40-59	60-79	80-99	100-119	120-139
No of Families	50	-	500	-	50

The Median of the distribution is Rs. 87. Calculate missing frequencies and also find Mode for the completed distribution.

- Q.7** Goals scored by two teams in a Football Session were as below:

No of goals scored in a match	No of Matches played	
	Team A	Team B
0	15	22
1	10	10
2	7	5
3	5	4
4	3	2
5	2	1

Calculate the appropriate measure of dispersion and state which team is more consistent? Why?

* * * * *