

2017

(6th Semester)

COMMERCE

Paper No. : BC-603

(**Business Statistics**)

Full Marks : 70

Pass Marks : 45%

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 45)

*The figures in the margin indicate full marks
for the questions*

1. (a) State and explain briefly the various types of diagrams used in the presentation of data. 9

Or

- (b) State and explain briefly the various types of tables used in statistics.

2. (a) Find the interquartile range and the coefficient of quartile deviation from the following data : 9

Marks in Statistics No. of Students

above 0	150
above 10	140
above 20	100
above 30	80
above 40	80
above 50	70
above 60	30
above 70	14
above 80	0

(2)

Or

- (b) From the following data, obtain the two regression equations :

X	6	2	10	4	8
Y	9	11	5	8	7

3. (a) State and explain the various types of index numbers. Discuss the uses of index numbers. 5+4=9

Or

- (b) Construct index numbers of price from the following data by applying—

- (i) Laspeyres method;
- (ii) Paasche method;
- (iii) Bowley's method;
- (iv) Fisher's Ideal method;
- (v) Marshall-Edgeworth method.

1+2+2+2+2=9

Commodity	2002		2003	
	Price	Quantity	Price	Quantity
A	2	8	4	6
B	5	10	6	5
C	4	14	5	10
D	2	19	2	13

4. (a) Discuss the different methods of measuring seasonal variations in a time series.

9

(3)

Or

- (b) The data below given the average quarterly prices of a commodity of four years. Calculate seasonal indices for the following time series data using the method of link relative :

Quarter	:	1991	1992	1993	1994
Quarter I	:	25	30	26	24
Quarter II	:	21	23	24	27
Quarter III	:	17	17	23	24
Quarter IV	:	28	32	30	31

5. (a) Explain the different definitions of probability and state their limitations, if any. 6+3=9

Or

- (b) The probability that A can solve a problem is 0.7 and the probability that B can solve that problem is 0.6. Considering that these two events are independent, find the probability that the problem gets solved by either of them. 9
