7. Write notes on :

(a) Test of an ideal index number.

(b) Use of time series in business forecasting.

(c) Calculating growth rate in time series   (15)

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Roll No. ....   Total Pages : 4

301206

August/September 2022
BBA (Gen.) II SEMESTER
Business Statistics (BBA-GEN-206)

Time : 3 Hours]   [Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*

2. *Answer any four questions from Part-B in detail.*

3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Limitations of Statistics.   (1.5)

(b) Types of classification.   (1.5)

(c) Geometric mean of two numbers A and B.   (1.5)

(d) Coefficient of variation.   (1.5)

(e) Difference between positive and negative correlation.   (1.5)

(f) Scatter Diagram.   (1.5)

(g) Coefficient of determination.   (1.5)

(h) Association of attributes.   (1.5)

(i) Cyclical Variations.   (1.5)

(j) Value Index numbers.   (1.5)

[P.T.O.

PART-B

2. (a) Discuss scope and applications of statistics in real life. (10)

(b) Discuss different types of graphs (5)

3. (a) Find coefficient of correlation of following data :

X	10	12	18	16	15	19	18	17
Y	30	35	45	44	42	48	47	46

(5)

(b) Calculate median for the following data :

Marks	No. of Students
0-5	6
5-10	12
10-15	17
15-20	30
20-25	10
25-30	10
30-35	8
35-40	5
40-45	2

(10)

4 The scores of two batsmen Mohan (A) and Sohan (B) in ten innings during a certain match are

A	32	28	47	63	71	39	10	60	96	14
B	19	31	48	53	67	90	10	62	40	80

Find out who is better scorer and who is more consistent batsman. Calculate coefficient of variation. (15)

5 (a) Fit a straight line by the method of least square :

Year	Production (in '000 Units)
1993	80
1994	90
1995	92
1996	83
1997	94
1998	99
1999	92

(10)

(b) Discuss simple, partial and multiple correlation taking suitable examples. (5)

6. (a) Discuss different components of time series. (10)

(b) Discuss Different methods of studying secular trend. (5)