Roll No. .....

56524

MBA 5 Year 2nd Semester (N. S.) Examination – July, 2022

BUSINESS STATISTICS

Paper : 502-P4

Time : Three hours] *[Maximum Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt ***five*** questions in all, selecting ***four*** questions from Section-**B** (***one*** question from each Unit) and ***one*** question from Section-**A** which is ***compulsory***. All questions carry equal marks.

SECTION – A

1. Answer the following :

(a) What is Table ?

(b) What do you know about frequency distribution ?

(c) What is Histogram ?

(d) What are index numbers ?

(e) What do you mean by central tendency ?

(f) What is correlation ?

(g) What do you understand by dispersion ?

(h) What is regression ?

SECTION – B

UNIT – I

2. Write short notes on the following :

(a) Meaning and limitation of statistics.

(b) Classification and its types.

3. "A diagram is a visual form for presentation of statistical data highlighting their basic facts and relationship". Elucidate the statement and discuss different types of diagrams.

UNIT – II

4. Calculate the mean of the following distribution :

Wages	No. of workers
0-5	5
5-10	10
10-15	14
15-20	20
20-25	35
25-30	15
30-35	1

5. Calculate standard deviation from the following data :

Value	Frequency
100-200	45
200-300	88
300-400	146

400-500	206
500-600	79
600-700	52
700-800	30
800-900	14

UNIT – III

6. Find regression equation of Y on X.

Students	(X)	(Y)
1	11	10
2	7	8
3	9	6
4	5	5
5	8	9
6	6	7
7	10	11

7. Find out the coefficient of correlation between capital invested and profit obtained from the following data :

Capital (Rs.)	Profit (Rs.)
10	2
20	4
30	8
40	5
50	10
60	15
70	14
80	20
90	22
100	30

UNIT – IV

8. Write a detailed note on time series analysis.

9. From the following data calculate price index number for 2020 with 2010 as base by :

   (a) Laspeyre's method

   (b) Passche's method

   (c) Marshall-Edgeworth's method and

   (d) Fisher's ideal method

Commodities	2010		2020	
	Price	Quantity	Price	Quantity
A	2	74	3	82
B	5	125	4	140
C	7	40	6	20