

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

Answer the following :

- What is Table ?
- What do you know about frequency distribution ?
- What is Histogram ?
- What are index numbers ?
- What do you mean by central tendency ?
- What is correlation ?

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- What do you understand by dispersion ?
- What is regression ?

SECTION – B

UNIT – I

- Write short notes on the following :
 - Meaning and limitation of statistics.
 - Classification and its types.
- "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

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

Calculate standard deviation from the following data :

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

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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 :

- Laspeyre's method
- Passche's method
- Marshall-Edgeworth's method and
- 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