

Roll No.

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OR

Find out Mode of the following series:

Class interval:

10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
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Frequency:

4	12	40	41	27	13	9	4
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UNIT-III

3. Define skewness? How does it differ from dispersion? Discuss the various methods of measuring skewness.

OR

What is concept of standard deviation? How standard deviation is calculated? What are its merits and demerits?

OR

In a distribution the mean is 45, median 48 & Pearson's coefficient of skewness 0.4. Find the mode and coefficient of variation?

UNIT-IV

4. Explain the meaning and importance of correlation. What are the different methods of finding correlation?

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**Bachelor of Business Administration
(Second Semester)
EXAMINATION, MAY-JUNE, 2022
BUSINESS STATISTICS
(108)**

Time : Three Hours

[Maximum Marks : 90]

[Minimum Pass Marks : 32]

Note : Attempt all the five questions. One question from each unit is compulsory. All questions carry equal marks.

UNIT-I

1. Define statistical science? Discuss the importance and limitations of statistics.

OR

Explain the meaning and scope of statistics.

UNIT-II

2. The marks obtained by ten students in an examination are given below. Calculate mean by short cut method.

Roll No.	1	2	3	4	5	6	7	8	9	10
Marks	43	48	65	57	31	60	37	48	78	59

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OR

Calculate Karl Pearsons correlation coefficient from the following data:

X	11	10	9	8	7	6
Y	20	18	12	8	10	5

UNIT-V

5. What is time series? What are its components? Describe the uses of time series analysis.

OR

Given the following data, calculate quarterly index numbers using (i) Laspeyres formula (ii) Paasche's formula (iii) Fisher formula.

Base year			Current year	
Item	Price	Quantity	Price	Quantity
A	5	50	10	56
B	3	100	4	120
C	4	60	6	60
D	11	30	14	24
E	7	40	10	36