



Shiksha Mandal, Wardha's
G. S. College of Commerce & Economics, Nagpur

An Autonomous Institution

(Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

First Semester Bachelor of Business Administration Examination (CBCS)

BUSINESS MATHEMATICS AND STATISTICS

(BBASFC 1.0)

Time: 3 Hours

Maximum Marks: 80

Note: All Questions are compulsory

Q.1. A) Prepare exclusive continuous series.

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Marks (upto)	No. of Students
10	25
20	40
30	60
40	75
50	95
60	125
70	190
80	240

OR

B) The marks out of 100 scored by 40 students in the subject of statistics are given below:

56, 78, 62, 37, 54, 39, 62, 60, 47, 42
 28, 82, 38, 72, 62, 44, 54, 42, 50, 52
 42, 56, 57, 65, 68, 47, 42, 56, 47, 48
 56, 56, 56, 66, 42, 52, 48, 48, 53, 68

Construct frequency table and prepare continuous series with class intervals of 25-29, 30-34 till 80-84.

Q.2 A) Calculate Mean, Mode and Median from the following data.

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Weight (In Pounds) [More than]	No. of Persons
90	105
100	100
110	80
120	40
130	28
140	22
150	14
160	10
170	3

OR

B) Find out the Co-efficient of Skewness by using Karl Pearson's formula.

Marks (more than)	No. of Students
30	200
40	150
50	80
60	65
70	50
80	40
90	10

Q.3. A) Find out Co-efficient of Correlation of the following data.

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Marks in statistics	Marks in Accountancy
70	60
60	85
78	50
75	40
80	70
65	75
70	85
90	90
85	65
80	70

OR

- B) From the following data you are required to
- Obtain linear regression equation of y on x
 - Obtain linear regression equation of x on y

X -	3	4	5	6	7
Y -	4	6	7	5	8

Q. 4. A) Calculate the Compound Interest and also the difference in Compound Interest on Rs. 900/- for 1 year at 20% p.a.

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- When it is Compound Quarterly
- When it is Compound Half Yearly.

OR

B) The ratio between the ages of mother and son is 5:2. If the Sum of their ages is 42 years, then find the age of mother and age of son.

Q.5 Answer the following questions in about 75-100 words: (Any two)

08

- Define the term statistics and write functions of the statistics.
- Explain the difference between Primary Data & Secondary Data.
- Write in brief about the different types of Diagrams and Graphs used to present the data.

- Q.6 Answer the following questions in about 75-100 words: (Any two) 08
- A) Explain in detail various measures of Central Tendency.
 - B) Explain the concept of Standard Deviation and Coefficient of Variation.
 - C) Explain the concept of Skewness and Quartile Deviation.
- Q.7 Answer the following questions in about 75-100 words: (Any two) 08
- A) What is Correlation? Write the scope of Correlation Analysis.
 - B) What is Probable Error? Explain the use of Probable Error.
 - C) Write the difference between Correlation and Regression Analysis.
- Q.8 Answer the following questions in about 75-100 words: (Any two) 08
- A) Write in detail about the application of Quantitative Techniques to business world.
 - B) Write the advantages and disadvantages of Quantitative Techniques.
 - C) Write in brief about the functions of Quantitative Techniques.
- Q.9 Answer the following questions in about 3-4 sentences. 08
- A) Give limitations of statistics.
 - B) Explain the concept of Harmonic Mean.
 - C) Define the concept of Rank Correlation
 - D) Write the limitations of Quantitative Techniques.

