H Roll No. .....

MB–104

M. B. A. (FIRST SEMESTER)

MID SEMESTER

EXAMINATION, 2021-22

BUSINESS STATISTICS AND ANALYTICS FOR DECISION-MAKING

Time : 1 : 30 Hours

Maximum Marks : 50

Note : (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1. Fill in the blanks/True or False :

(1×10=10 Marks)

(i) Deviation taking place from Arithmetic Mean is always ..... .

(ii) Mean is not affected by extreme values. (True/False)

(iii) The formula for Bowley's skewness is ..... .

(iv) Standard deviation is a most widely used tool of dispersion. (True/False)

(v) Lower coefficient of variance represents ..... .

(vi) If Mean, Median and Mode all three are equal, such series is ..... .

(vii) ..... is the circular representation of a certain data.

(viii) Variance is the square root of standard deviation. (True/False)

(ix) The formula of Mean Deviation in individual series is ..... .

(x) A series where upper limit of first-class interval is not equal to lower limit of next class is ..... .

Section—B

Note : (i) Each question contains three parts (a), (b), & (c).

(ii) Attempt any *one* part of choice (a) or (b), from each question and part (c) is compulsory of each question.

2. (a) Discuss the importance of statistics along with its functions. (CO1)

OR

(b) Explain the various methods of primary and secondary data. (CO1)

(c) **Case Study :** (CO1)

(i)

Type of Expenditure	Amount (₹)
Food	4,00,000
Clothing	2,00,000
Education	1,00,000
Miscellaneous	1,00,000

Make a pie chart for the above data set.

(ii) Represent the data in best suitable bar chart :

	Sales (₹)	Profit (₹)	Cost (₹)
Year 1	2,00,000	40,000	1,60,000
Year 2	4,00,000	70,000	3,30,000
Year 3	2,60,000	80,000	1,80,000
Year 4	4,80,000	1,40,000	3,40,000

3. (a) Calculate Mean and Median from the following data : (CO2)

Class Interval	Frequency
0—9	5
10—19	6
20—29	7
30—39	6
40—49	5

OR

(b) Discuss the characteristics of a good average. (CO2)

(c) **Case Study :** (CO2)

The scores of *two* batsmen are as follows (in 10 innings) :

Sachin	Sehwag
74	17
67	70
50	84
48	7
88	80
90	11
7	16
12	70
28	20
90	10

Who is better batsman and who has better consistency ?