OR

(c) From the following data find out the Karl Pearson's coefficient of skewness : (CO5)

Size	Frequency
10	2
11	4
12	10
13	8
14	5
15	1

Section—B

Case Study

4. The following information is given for group A and group B :

	Group A	Group B
Mean	62.46	61.29
Mode	62.64	62.6
S.D. (σ)	3.75	3.65

(i) Which group shows greater variability ?

(ii) In which group skewness is greater ?

(iii) Calculate Median value for both the groups. (CO5)

H   Roll No. ....

MB–105

M. B. A. (FIRST SEMESTER)

MID SEMESTER

EXAMINATION, Nov., 2022

DATA DRIVEN DECISION-MAKING

Time : 1:30 Hours

Maximum Marks : 50

Note : (i) This question paper contains *two* Sections—Section A and Section B.

(ii) Both Sections are compulsory.

(iii) Answer any *two* sub-question among a, b & c in each main question of Section A. Each question carries 10 marks.

(iv) Section B consisting of case study is compulsory. Section B is of 20 marks.

Section—A

1. (a) What are the various methods of collecting statistical data ? What precautions should be taken while using secondary data ? (CO1)

P. T. O.

OR

(b) Construct a histogram, frequency polygon and frequency curve from the following data :   (CO4)

Class	Frequency
0—10	4
10—20	6
20—30	10
30—40	15
40—50	12
50—60	7
60—70	3

OR

(c) What do you mean by "less than ogive" and "more than ogive" ? How is median obtained from this ?   (CO2)

2. (a) What do you mean by measure of central tendency ? Define various measure of central tendency.   (CO4)

OR

(b) Average marks of 150 students in a class is 60. Average marks of day scholars is 55 and hostellers is 70. Find number of day scholars and hostellers.   (CO3)

OR

(c) Calculate the harmonic mean from the following data :   (CO4)

Marks	Frequency
0—10	4
10—20	6
20—30	10
30—40	7
40—50	3

3. (a) What do you know about dispersion ? What purpose does a measure of dispersion serve ? Discuss different measure of dispersion.   (CO2)

OR

(b) Determine quartile deviation and its coefficient from the following data :(CO3)

Class	Frequency
0—5	5
5—15	8
15—40	10
40—50	12
50—70	8
70—100	7