(c) From the following data find out the Coefficient of Quartile Deviation from following data : (CO5)

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

Section—B

5. **Case Study :** 20 Marks

(i) Critically examine the different methods of measuring variation. (CO5)

(ii) From the following information, find median and coefficient of skewness :

Mean	Mode	Coefficient of Variation
50	45	12

170

H Roll No. .....

MB–105

M. B. A. (FIRST SEMESTER)

MID SEMESTER

EXAMINATION, Jan., 2023

DATA DRIVEN DECISION-MAKING

Time : 1½ 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-questions among (a), (b) and (c) in each main question of Section A.

(iv) Each question carries 10 marks.

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

P. T. O.

Section–A 2×5=10

1. (a) What do you mean by statistical data and what are its different methods of presentation ? (CO1)

   (b) Construct a histogram and find the value of MODE from the following data ? (CO4)

Class	Frequency
0—10	5
10—20	8
20—30	15
30—40	9
40—50	6
50—60	4
60—70	3

   (c) What do you mean by cumulative frequency ? How a cumulative frequency table is formed ? (CO1)

2. (a) Define median and discuss its properties. Also discuss its advantages and disadvantages. (CO2)

   (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)

   (c) Find the median for the following distribution : (CO4)

Size	Frequency
10—15	8
15—20	12
20—25	12
25—30	18
30—35	14
35—40	10

3. (a) Explain Quartile Deviation, Mean Deviation and Standard Deviation. Discuss the circumstances in which they may be used. (CO2)

   (b) Determine Mean deviation about mean and its coefficient from following data : (CO3)

Class	Frequency
0—10	5
10—20	8
20—30	10
30—40	12
40—50	8
50—60	7