Practice Problem Set – Module – 1

1. Find the mean of 20, 26, 28, 30, 32.

2. Find the weighted mean of the first n natural numbers, the weights being the corresponding numbers.

3. Obtain the median for the following distribution:

x:	1	2	3	4	5	6	7	8	9
f:	8	10	11	16	20	25	15	9	6

4. Find the median wage of the following distribution:

Wages (in Rs.)	2000-3000	3000-4000	4000-5000	5000-6000	6000-7000
No. of workers	3	5	20	10	5

5. What is the mode of the following 1, 2, 2, 2, 3, 3, 4, 4, 5.

6. Find the mode of the following :

x:	1	2	3	4	5	6	7	8
f:	4	9	16	25	22	15	7	3

7. Find the mode for the following distribution:

Class interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
f:	5	8	7	12	28	20	10	10

8. Daily income of ten tamilies of a particular place is given below. Find out Geometric Mean.

85 70 15 75 500 8 45 250 40 36

9. Find the G.M. for the data given below :

Marks	4-8	8-12	12-16	16-20	20-24	24-28	28-32	32-36	36-40
f:	6	10	18	30	15	12	10	6	2

10. Find the H.M. from the following 2574 ,475, 75, 5, 0.8, 0.08, 0.005, 0.0009

11. From the following data compute the value of H.M.

Marks	10	20	25	40	50
No. of Students	20	30	50	15	5

12. From the following data compute the value of H.M.:

Class interval	10-20	20-30	30-40	40-50	50-60
f :	4	6	10	7	3

13. Calculate the range and its coefficient from the following data :

Day	Mon	Tue	Wed	Thu	Fri	Sat
Price	200	210	208	160	220	250

14. Calculate the range and its coefficient from the following data :

Marks	10-20	20-30	30-40	40-50	50-60
No. of Students	8	10	12	8	4

15. Find out the value of Q.D. and its coefficient from the following data:

Roll No.	1	2	3	4	5	6	7
Marks	20	28	40	12	30	15	50

16. Compute coefficient of Q.D. from the following data :

Marks	10	20	30	40	50	60
No. of Students	4	7	15	8	7	2

17. Calculate Q.D. and the coefficient of Q.D. from the following data :

Wages	Less than 35	35-37	38-40	41-43	Over 43
No. of wage earners	14	62	99	18	7

18. Calculate the mean deviation and its coefficient for the following data :

4000 4200 4400 4600 4800

19. Calculate mean deviation from the following series :

x	10	11	12	13	14
f	3	12	18	12	3

20. Calculate the standard deviation from the data given below :

Size of item	3.5	4.5	5.5	6.5	7.5	8.5	9.5
f	3	7	22	60	85	32	8

21. Calculate mean and standard deviation of following frequency distribution of marks :

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students	5	12	30	45	50	37	21

22. The following are some of the particulars of the distribution of weight of boys and girls in a class :

	Boys	Girls
Number	100	50
Mean weight	60 kg	45 kg
Variance	9	4

(a) Find the standard deviation of the combined data.

(b) Which of the two distributions is more variable ?

23. The following table shows that monthly expenditures of 80 students of a University on morning breakfast :

Expenditure (in Rs.)	No.of students	Expenditure (in Rs.)	No.of students
78-82	2	53-57	13
73-77	6	48-52	9
68-72	7	43-47	7
63-67	12	38-42	4
58-62	18	33-37	2

Calculate arithmetic mean, standard deviation and coefficient of variation of the above data.