

Bankim Sardar College

Semester I

B.Com.

Paper: GE1.1Chg

Module: II

Subject: Statistics

F.M. 45

Group - A

Answer any one question

1. If Mean and Median of a certain set of observations be Rs. 26.70 and Rs. 32.50 respectively, find approximately the value of Mode. 5
2. State different measures of skewness and kurtosis. 5
3. Find S.D. of 4, 8, 10, 12, 16. 5

Group - B

Answer any four questions

4. Draw the histogram of the following frequency distribution of heights: 10
Heights (cm.) : 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190 Total
Frequency : 8 17 46 24 5 100
5. Find the A.M. of the frequency distribution given below: 10
Class limits : 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179
Frequency : 12 19 40 21 8
6. Using suitable interpolation formula, find the value of y when $x = 22$ from the following data: 10

x	20	25	30	35	40
y	23	26	30	35	42

7. Find the value of the missing term in the following table: 10

x	1	3	5	7	9
y	12	20	?	60	92

8. Find the S.D. and variance of the following frequency distribution: 10

x	25	35	45	55	65
f	60	130	150	130	30

9. Compute the co-efficient of variation from the following data: 10

Marks in Statistics	:	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100
No. of students	:	5	7	28	9	1

10. Marks obtained by 25 students are given below: 10

Marks obtained	:	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
No. of students	:	3	4	8	6	4

Find the quartiles of the above distribution.

11. The first three moments about the value 2 are 4, 65, and 325. Find its mean, S.D., and the moment measure of skewness. 10

12. Calculate Karl Pearson's measure of skewness for the following distribution: 10

Class interval	:	10 - 20	20 - 30	30 - 40	40 - 50
Frequency	:	8	14	16	12