B.Com.(CS) DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Major- Paper
STATISTICS - I

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. What is Statistics?
2. What is primary data?
3. State the different methods of classification.
4. What do you mean by diagram?
5. What is Skewness?
6. Find the Mode $3, 5, 7, 5, 9, 7, 5, 7, 6, 3, 9, 5, 6, 6, 3$
7. Calculate the Harmonic mean of $3, 6, 24, 48$
8. Find the value of Co-efficient of range $35, 40, 52, 29, 51, 46, 27, 30, 30, 23$
9. Calculate the Co-efficient of Quartile deviation where first and third Quartiles are 14 and 26.
10. Find the Standard deviation of $3, 8, 6, 10, 12, 9, 11, 10, 12, 7$
11. What is dispersion?
12. Write the formula for calculating Bowley's co-efficient of skewness.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Explain the functions of Statistics
14. What are the sources of Secondary data?
15. Explain various type of classification of data.
16. Calculate mean

X	50	60	80	40	70	90
F	5	3	4	6	8	4

17. Calculate Geometric mean of

X	6	7	8	9	10	11
F	4	6	9	5	2	8

18. Calculate Quartile deviation

X	26	28	32	35	29	24
F	6	7	9	10	7	6

19. Calculate Karl Pearson's measures of skewness

Wages	12	15	20	25	30	40	50
Workers	10	25	40	70	32	13	10

Section C $(2 \times 15 = 30)$ Marks

Answer any **TWO** questions

20. Describe various types of diagrams.

21. Calculate the mean, median, mode from the following data

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No.of.students	4	12	40	41	27	13	9	4

22. Calculate mean deviation about mean and coefficient of dispersion from the following data

Class interval	0-5	5-10	10-15	15-20	20-25
Frequency	3	5	12	6	4

23. Calculate Bowley's coefficient of skewness for the following distribution

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No.of.persons	10	25	20	15	10	35	25	10

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