B.Com(CS) DEGREE EXAMINATION,APRIL 2019
II Year III Semester
Statistics - I

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

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

Answer any **TEN** questions

1. Define Statistics
2. What is questionnaire by mail?
3. What are the sources of secondary data.
4. What is Ogive?
5. Write short note on Histogram.
6. What is Frequency Distribution?
7. Give two merits and demerits of Harmonic Mean.
8. Define the Term quartile Deviation
9. Find the median of the set of obseravations 27, 36, 28,18,35,26,20,35,40,26.
10. What is Standard deviation? Formulate?
11. Define Skewness.
12. Formulate Karl Pearson's Coefficient of skewness and Bowley's Coefficient of skewness.

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

Answer any **FIVE** questions

13. Prepare a frequency distribution from the following figures relating to bonus paid in rupees to workers.

67	60	69	70	62	63	69	70	58	56	67	54	55
70	60	60	60	61	70	56	57	58	60	59	61	73
69	67	61	60	59	57							

14. Describe the classifications of data.
15. Draw a pie Diagram from the following data

Type of Commodity	Expenditure in Rupees	
	Family A	Family B

Food	300	500
Rent	200	350
Cloths	125	250
Education	110	225
Miscellaneous	75	125
Savings	90	150

16. Find the Range and the Coefficient of range from the following data.
    25,36,41,39,22,46,24,29,40,36,28,31,45,29,34.
17. Calculate A.M, G.M and H.M of the following quantities: 3,6,24,48.
18. Find out the quartile deviation and its coefficient from the following data:

Class Interval	Frequency
10-15	4
15-20	12
20-25	16
25-30	22
30-40	10
40-50	8
50-60	6
60-70	4
Total	82

19. Calculate the pearson's coefficient of skewness for the following data:

Class	3-7	8-12	13-17	18-22	23-27	28-32	33-37	38-42
Frequency	2	108	580	175	80	32	18	5

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

Answer any **TWO** questions

20. Explain the different types of Diagrams.
21. Give below is the frequency distribution of the marks obtained by 90 students. Compute the A.M, Median and mode.

Marks	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
No Of Students	5	12	15	20	18	10	6	5

22. From the given frequency distribution of height of 360 boys in the age of 10-20 years. Calculate the A.M, Coefficient of variation, quartile deviation.

Height (in cms)	No of boys
126-130	31

131-135	44
136-140	48
141-145	51
146-150	60
151-155	55
156-160	43
161-165	28

23. Find out Bowley's coefficient of skewness for the following data.

Weight(in kgs)	40	50	60	70	80	90
No of persons	185	167	132	82	38	12