B.Sc. DEGREE EXAMINATION,APRIL 2019
II Year III Semester
Statistical Methods and its Application - I

Time : 3 Hours **Max.marks :60**

Section A $(10 \times 1 = 10)$ Marks

Answer any **TEN** questions

1. Give any two diagrammatic representation.
2. How will you find median in ogives?
3. Give the merits of mean.
4. Give the formula for median.
5. Define range.
6. Give the formula for coefficient of variation.
7. Define conditional probability.
8. State Bayes theorem.
9. Define random variable.
10. Give the pdf of normal distribtion.
11. Define Poisson distribtion.
12. Write the MGF of normal distribtion.

Section B $(5 \times 4 = 20)$ Marks

Answer any **FIVE** questions

13. Difference between classification and tabulation.
14. Define mode and give its merits.
15. Define (i) standard deviation(ii) coefficient of variation.
16. State (i) multiplication theorem (ii) condition for independence.
17. Derive the mean of binomial distribution.
18. List any for properties of normal distribtion.
19. Derive the MGF of binomial distribution.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain the parts of a table.
21. Define (i) Mean (ii) Median. Give its merits and demerits.
22. Difference between Skewness and Kurtosis.
23. State and prove addition theorem.
24. Derive the mean and variance of Poisson distribution.

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