

B.Sc. DEGREE EXAMINATION, APRIL 2020
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. Define statistics.
2. What do you mean by primary data?
3. State the merits of mode.
4. State the demerits of mean.
5. Define dispersion.
6. State the formula for coefficient of variation.
7. Define conditional probability.
8. Write about classical probability approach.
9. Define random variable.
10. Define about moment generating function.
11. State the mean and variance of binomial distribution.
12. Mention about quartile deviation.

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

Answer any **FIVE** questions

13. Discuss about the classification of data and its types.
14. Describe about the procedure of finding median with your example.
15. Elaborate about kurtosis and its types.
16. State and prove multiplication theorem of probability.
17. Mention the properties of normal distribution.
18. Discuss about mathematical expectation.
19. Describe about standard deviation with an example.

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

Answer any **THREE** questions

20. Explain about the various diagrammatic representations of statistical data.
21. Describe in detail about the measures of location.
22. Discuss about skewness and its types.
23. State and prove Baye's theorem.
24. Explain the concept of Poisson distribution with its mean and variance.

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