QP Code: UV25DR007

Reg. No : ....
Name : ....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER (FYVP) DEGREE REGULAR EXAMINATIONS, NOVEMBER 2025
B. Voc. Applied Biotechnology
ABT1CJ102 : Biostatistics and Computer Applications for Biological Sciences
2025 Admission Onwards
(Credits: 4)

Time: 2 Hours **Maximum Marks: 60**

Section A

*Answer **all** questions. Each question carries **2** Marks.* ***(Ceiling 20)***

1. Define Biostatistics.
2. Define mean.
3. Describe the differences between Windows and Linux operating systems.
4. Define correlation.
5. Describe on regression analysis.
6. Calculate variance and standard deviation for the given height of 10 students. 60, 60, 61, 62, 63, 63, 63, 64, 64, 70.
7. Predict the situations where chi-square test is applied.
8. Calculate the mode from the series: 3, 5, 5, 6, 7, 8, 8, 8, 9.
9. Analyze between binomial and normal distributions.
10. Outline graphical methods of representing data.
11. Examine the advantages and disadvantages of using excessive animations in powerpoint.
12. Interpret results from a t-test comparing two biological samples.

Section B

*Answer **all** questions. Each question carries **6** Marks.* ***(Ceiling 30)***

13. Explain different scales of measurement with examples.
14. List any four example of system software.
15. The marks obtained by two students in five subjects are given.
    SUBJECT: 1, 2, 3, 4, 5
    STUDENT A: 75, 80, 70, 85, 90
    STUDENT B: 60, 65, 55, 70, 80

Turn Over

Calculate the coefficient of variation for both students and state who is more consistent in performance.

16. For the following data, find the mean,median and mode and compare their values.
    Marks : 0-10, 10-20, 20-30, 30-40, 40-50
    No. of students: 5, 7, 12, 15, 6

17. Show steps involved in formulating null and alternative hypothesis.

18. Evaluate the effectiveness of MS Word in professional documentation compared to other text editors.

Section C

*Answer **any One**.. **(1X10=10 Marks)***

19. Define the methods of data collection and sampling in Biostatistics. U3 L1

20. Compare different types of charts and their suitability for various datasets.

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