

**23P115**

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Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL1 C02 - BIOINSTRUMENTATION AND BIostatISTICS**

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Ph value calculation.
2. Proportional counter.
3. ECG
4. Differentiate between skewness and kurtosis
5. What is meant by probability distributions? Explain Binomial distribution.
6. Explain confidence interval, critical region and levels of significance.
7. Explain F-test.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Write a short note on Electron microscope.
9. Differentiate between paper electrophoresis and agarose gel electrophoresis.
10. Explain the role of nanotechnology in environmental management.
11. Discuss different types of sampling methods.
12. Explain standard deviation and degree of freedom.
13. Explain correlation equation.
14. With the help of an example explain Bray-curtis similarity.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Write an essay on chromatography.
16. Write an essay on spectroscopy.
17. Explain averages.
18. Give a detailed account on regression.

**(2 × 5 = 10 Weightage)**

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