Reg. No	•
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Name :.....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024 **2022 ADMISSIONS REGULAR**

SEMESTER IV - CORE COURSE (ZOOLOGY)

ZY4B04B18 - Research Methodology, Biophysics and Biostatistics

Time: 3 Hours Maximum Marks: 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

- 1. What is debate?
- 2. Describe e-Encyclopedia.
- 3. What is e-Book?
- 4. Describe Cannon net.
- 5. What is Molarity?
- 6. What is Line transect?
- 7. Define magnification.
- 8. Explain the principle and application of Camera Lucida.
- 9. Write a note on the Biodiversity act 2003.
- 10. Write the formula for calculation of mean for grouped data in continuous series.
- 11. Explain null hypothesis.
- 12. Define primary data.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Describe the importance of literature reviewing in defining a problem.
- 14. Explain the objectives of the research.
- 15. Explain the units of measurement.
- 16. Explain the preserving methods of a bird.
- 17. Describe Micrometry and add a note on calibration of micrometer.

3.34

- 18. Give an account on Polarization microscopy.
- 19. Describe Concept of 3 R -in conservation.
- 20. Ten replicas of the plant Ipomea were taken for their nitrogen content. Find the standard deviation. 3.58

Nitrogen % 3.52 3.54

21. Calculate the standard deviation of the following variables.

240.12 240.17 240.12 240.13 240.15 240.15 240.17 240.16 240.22 240.21

3.46

3.39

3.59

3.62

3.57

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

3.51

- 22. What are the different presentation techniques?
- 23. Explain Insects collection methods.
- 24. Write an essay on Transmission Electron Microscope (TEM).
- 25. Explain different types of sampling methods.

