

TB214500W

Reg. No :

Name :

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023

(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 & 2018 Admissions Supplementary)

SEMESTER IV - CORE COURSE (ZOOLOGY)

ZY4B04B18 - RESEARCH METHODOLOGY, BIOPHYSICS & BIostatISTICS

Time : 3 Hours

Maximum Marks : 60

Part A

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

(10x1=10)

1. What is e-Book?
2. Describe e-Encyclopedia.
3. Write a note on Workshop.
4. Explain Normality.
5. Define Plankton.
6. Describe Funnel trap.
7. Define magnification.
8. Write the principle of Dark field microscopy.
9. Expand CPCSEA.
10. Define sample.
11. Explain null hypothesis.
12. Define primary data.

Part B

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

(6x5=30)

13. Write the outline of a popular report.
14. List the steps in Project proposal writing.
15. List the rules for using animals in experiments.
16. How will you separate insects from soil?
17. Write notes on column chromatography and gas chromatography.
18. Describe Fluorescence microscope.
19. Describe different animal protection initiatives.
20. Calculate the standard deviation of the following variables.
240.12 240.13 240.15 240.12 240.17 240.15 240.17 240.16 240.22 240.21
21. Calculate mean deviation from mean for the following data.
Class interval 2-4 4-6 6-8 8-10
Frequency 3 4 2 1

Part C

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

(2x10=20)

22. Write an essay on different types of research.
23. Write an essay on Fish collection methods.

24. Write an account on electrophoresis.

25. Write an essay on the different methods of diagrammatic and graphical representation of data.