

**BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025**  
**2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY**  
**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. Write a note on Workshop.
2. Write any four objectives of research.
3. What is e-Book?
4. What is Birdlime?
5. What is ppm?
6. Define Taxidermy.
7. Define Beer-Lambert law.
8. Define magnification.
9. Expand AWBI.
10. Give the formula for calculation of Karl Pearson's Coefficient of correlation.
11. Describe alternate hypothesis.
12. Define standard error.

**Part B****II. Answer any Six questions. Each question carries 5 marks****(6x5=30)**

13. Explain the components of a thesis?
14. Describe the importance of literature reviewing in defining a problem.
15. Describe Simpson index.
16. Explain the units of measurement.
17. Comment on Video microscopy.
18. Explain the components of a Compound Microscope.
19. Explain animal rights and animal laws in India .
20. Calculate the arithmetic mean of the following data.

Class Interval	Frequency
70-90	40
90-110	55
110-130	60
130-150	70
150-170	100
170-190	65

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 research report writing.
23. Describe different Insect Collection ,extraction and preservation methods.
24. Write an account on electrophoresis.
25. Write an essay on the different methods of diagrammatic and graphical representation of data.