QP CODE: 23106161

23106161

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MARCH 2023

Fourth Semester

CORE COURSE - ZY4CRT04 - RESEARCH METHODOLOGY,BIOPHYSICS & BIOSTATISTICS

(Common for B.Sc Biological Techniques and Specimen Preparation Model III, B.Sc Zoology and Industrial Microbiology Model III Double Main, B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology)

2017 Admission Onwards

EBCADC80

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is developmental research?
2. What is seminar?
3. What is internet?
4. Write the formula for calculating Simpson index.
5. Define Taxidermy.
6. Define Normality.
7. Write notes on camera lucida.
8. What is pH meter?
9. Define Bioethics.
10. What is Reduction?
11. Write an account on Pie diagram.
12. What is alternate hypothesis?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Differentiate between Thesis and Dissertation.
14. Plagiarism is the criminal act in research'. Comment on the statement.
15. Explain quadrate method.
16. Write an account on population richness and evenness.
17. Differentiate between scanning electron microscope and transmission electron microscope.
18. Describe the technique used for the separation and identification of pigments.
19. Comment on the principal and use of X-ray crystallography.
20. What are the roles of the CPCSEA?
21. Marks secured for Zoology core course in first year University examination is recorded in the following table.

Marks	0-10	10-20	20-30	30-40	40-50
No of students	5	7	10	6	4

Find out the mean.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Define Research process. Explain the various steps involved in a research project.
23. Write an essay on plankton collection and preservation methods.
24. Explain the principle and uses of microscope by discussing various components of a microscope.
25. Comment on various measures of dispersion. State their merits and demerits.

(2×10=20)