

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2026**SEMESTER 6 : ZOOLOGY****COURSE : 19U6CRZOO12 : GENERAL INFORMATICS, BIOINFORMATICS, BIostatISTICS AND RESEARCH METHODOLOGY***(For Regular 2023 Admission and Supplementary 2022/ 2021 /2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 60

PART A**Answer all (1 mark each)**

1. Name any 4 input devices of a computer.
2. What are databases? Name any two.
3. What is indicated by the term 'node' in a phylogram?
4. What is quantitative data?
5. What is EMBL stands for?
6. Explain pdb data format.
7. What is a microcomputer?
8. What is ORF?

(1 x 8 = 8)**PART B****Answer any 6 (2 marks each)**

9. What are the major uses of PAGE?
10. Explain the parts of a transmission electron microscope.
11. What is the difference between primary and secondary data?
12. What are the major focuses of Human Brain Project?
13. What is regression?
14. Explain the IMRAD format of research reporting.
15. Explain the uses of BLAST.
16. What is the importance of knowing hydrophobicity of a protein?

(2 x 6 = 12)**PART C****Answer any 4 (4 marks each)**

17. Find mean.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	7	10	6	4

18. Discuss the components of a colorimeter and it's uses.
19. Elaborate on the procedure for testing hypothesis.
20. Discuss the drug discovery pipeline.
21. Discuss the knowledge based methods of protein structure prediction.
22. Explain the procedure of making good quality scientific drawings.

(4 x 4 = 16)

PART D
Answer any 2 (12 marks each)

23. Find Mean deviation.

Age group	0-4	4-8	8-12	12-16	16-20	20-24
Frequency	2	6	10	14	18	22

24. Find standard deviation.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	5	10	20	40	30	20	10	4

25. Discuss different methods of Chromatography.
26. Discuss different methods for research communication.

(12 x 2 = 24)