

**B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024****SEMESTER 6 : ZOOLOGY****COURSE : 19U6CRZOO12 - GENERAL INFORMATICS, BIOINFORMATICS, BIostatISTICS AND RESEARCH METHODOLOGY***(For Regular 2021 Admission and Supplementary 2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 60

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

1. What type of data are available from Genbank?
2. What is meant by proteome?
3. What is Flash ROM?
4. Explain Hard Disk.
5. Name a hydrophobicity scale?
6. Explain WAN.
7. What is PAM?
8. What is statistical data?

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

9. Explain the advantages of PAGE?
10. What is poisson distribution?
11. What is the significance of Human Brain Project?
12. What is statistical data? what are the types of data?
13. What is quartile deviation? Mention the formula.
14. What is the importance of knowing hydrophobicity of a protein?
15. What is Colloquium? How it is different from a Symposium.
16. Explain FASTA sequence format.

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

17. Discuss about any two gene finding tools.
18. Discuss different types of electron microscopes.
19. Find Mean

Class	24	25	26	28	29
Frequency	3	4	5	6	2

20. Explain the techniques for improving the presentation of your research report.
21. Discuss the methods used in making phylograms?
22. Briefly explain different types of correlation.

**(4 x 4 = 16)**

**PART D**

**Answer any 2 (12 marks each)**

23. Find standard deviation

Size of item	6	7	8	9	10	11	12
Frequency	3	6	9	13	8	5	4

24. Find Mean deviation.

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

25. Elaborate the structure and components of a research publication/ report.  
26. Elaborate on the working of different types of light microscopes.

**(12 x 2 = 24)**