Name **25U662**

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2025
SEMESTER 6 : ZOOLOGY
COURSE : **19U6CRZOO12 : GENERAL INFORMATICS, BIOINFORMATICS, BIOSTATISTICS AND RESEARCH METHODOLOGY**

(For Regular 2022 Admission and Supplementary 2021/2020/2019 Admissions)

Time : Three Hours   Max. Marks: 60

PART A
Answer All (1 mark each)

1. What is GEN-SNiP?
2. Explain WAN.
3. What is statistical data?
4. What is INSDC stands for?
5. What is RAM?
6. What type of data are available from Genbank?
7. What is a mainframe computer?
8. What is EMBL stands for?

(1 x 8 = 8)

PART B
Answer any 6 (2 marks each)

9. What is the use of a scanning electron microscope?
10. What is Colloquium? How it is different from a Symposium.
11. What do you mean by positive and negative correlations?
12. What is the importance of knowing hydrophobicity of a protein?
13. Explain the use of Camera lucida.
14. Explain the Institutional framework of EMBL
15. Explain what is Molecular Simulation?
16. What is the difference between a graph and a diagram?

(2 x 6 = 12)

PART C
Answer any 4 (4 marks each)

17. Explain the terms seminar, debate, workshop and conference.
18. Explain the optical parts of a compound light microscope.
19. Find Median

Thickness in mm	3	3.2	3.3	3.35	4	4.5
Frequency	10	15	16	17	20	22

20. Discuss about any two gene finding tools.
21. Explain the terms associated with molecular phylogeny?
22. Discuss the working of a phase contrast microscope.

(4 x 4 = 16)

PART D
Answer any 2 (12 marks each)

23. Find Mode

Plant height in m	15-20	20-25	25-30	30-35	35-40	45-50
Frequency	10	20	22	14	18	8

24. Find standard deviation

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

25. Elaborate on any three seperation techniques you have studied.

26. Explain the procedure and format of application for a funded research project.

(12 x 2 = 24)