

**B. Sc. DEGREE END SEMESTER EXAMINATION - APRIL 2021****SEMESTER –6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO12: GENERAL INFORMATICS, BIOINFORMATICS, BIOSTATISTICS AND RESEARCH METHODOLOGY***(Common for Regular 2018 Admission & Improvement 2017/Supplementary 2017/2016 /2015 Admissions)*

Time: Three Hours

Max Marks: 60

**PART A*****Answer all questions, each question carries 1 mark***

1. Expand ROM
2. Give two examples for output devices
3. What is ORF finding?
4. Define mean
5. What is EMBL?
6. Define normality
7. What is binomial distribution?
8. What is SNP?

(1 x 8 = 8)

**PART B*****Answer any Six, each question carries 2 mark***

9. Explain standard error
10. Explain classification of data
11. What is homology modeling?
12. What is molecular phylogeny?
13. Give an account of any two BLAST programmes
14. Explain Rasmol
15. What is OMIM? Mention its importance
16. Write the principle involved in electrophoresis

(2 x 6 = 12)

**PART C*****Answer any Four each question carries 5 mark***

17. Differentiate between Bioinformatics and Computational biology
18. Differentiate between stage micrometer and ocular micrometer
19. What is human brain project?
20. Explain various measures of central tendency
21. What are the different types of correlation?
22. Describe any three analytical techniques used in biological research

(5 x 4 = 20)

**PART D*****Answer any Two each, question carries 10 marks***

23. Write an essay on bioinformatics tools
24. Find the standard deviation of the following data

Class	15-21	22-28	29-35	36-42	43-49
Frequency	7	3	2	5	1

25. Write an essay on measures of dispersion
26. Write an essay on operating systems? Add a note on new technology in Internet

(10 x 2 = 20)

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