

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2020**SEMESTER –6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO12: GENERAL INFORMATICS, BIOINFORMATICS, BIostatISTICS AND RESEARCH METHODOLOGY***(Common for Regular 2017 Admission & Supplementary 2016 /2015 Admissions)*

Time: Three Hours

Max Marks: 60

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

1. Expand RAM
2. What is EPROM?
3. What is Rasmol?
4. What is gene finding?
5. What is normal distribution?
6. What is proteome?
7. Define molarity
8. What is molecular phylogeny?

(1 x 8 = 8)

PART B***Answer any Six questions, each question carries 2 marks***

9. Explain standard deviation
10. Explain protein structure prediction
11. Describe the various output devices
12. What is meant by scoring matrices?
13. What are the methods used for collection of data?
14. Explain SNP
15. Differentiate between Binomial distribution and Poisson distribution
16. Write the principle involved in micrometry

(2 x 6 = 12)

PART C***Answer any Four of the following, each question carries 5 marks***

17. Describe various bioinformatics tools
18. Give an account of multiple sequence alignment
19. Explain various measures of dispersion
20. Explain the methods for graphical representation of data
21. Describe any three separation techniques used in biochemical studies
22. Describe the procedure involved in reporting a scientific discovery

(5 x 4 = 20)

PART D

Answer any Two of the following, each question carries 10 marks

23. Write an essay on bioinformatics databases
24. Find the mean deviation of the following data

Number of flowers per plant	150	100	125	126	115	127
Frequency	4	10	12	10	8	6

25.

26. Write an essay on applications and future of bioinformatics
27. Write an essay on research methodology (10 x 2 = 20)
