

**B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2019****SEMESTER – 6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO12: GENERAL INFORMATICS, BIOINFORMATICS,  
BIostatISTICS AND RESEARCH METHODOLOGY**

*(Common For Regular - 2016 Admission / Supplementary-Improvement 2015 admission)*

Time : Three Hours

Max. Marks : 60

**PART A**Answer **all** questions. Each question carries **1** mark.

1. What is FASTA?
2. Comment on ROM
3. What is a colloquium?
4. What is meant by primary data?
5. Define quartile deviation
6. Comment on camera lucida.
7. What is meant by normality?
8. Define sedimentation coefficient

(1 x 8 = 8)

**PART B**Answer **any six** questions. Each question carries **2** marks.

9. What are the applications of multiple sequence alignment?
10. Write a note on BLAST
11. Write a note on histogram
12. Mention the features of ORF finder
13. What are the merits of Median?
14. Comment on null hypothesis
15. Explain the principle of pH meter
16. Mention any two differences between TEM and SEM

(2 x 6 = 12)

**PART C**Answer **any four** of the following questions. Each question carries **5** marks.

17. Give an account on molecular phylogeny
18. Explain different types of sampling methods
19. Explain the important steps in drug designing
20. Write an account on various types of probability distributions
21. Explain the principle and applications of phase contrast microscope
22. Explain the general outline of a technical report

(5 x 4 = 20)

**PART D**

Answer **any two** of the following questions. Each question carries **10** marks.

23. Give an account on bioinformatics databases
24. Explain different types of chromatographic techniques
25. Write an essay on various bioinformatics tools
26. Write a note on standard deviation. Calculate standard deviation of the following data:

x	2	3	4	5	6	7	8
f	1	2	3	5	3	2	1

(10 x 2 = 20)

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