BSc DEGREE END SEMESTER EXAMINATION MARCH 2017
SEMESTER – 6: ZOOLOGY (CORE COURSE)
COURSE: U6CRZOO12: GENERAL INFORMATICS, BIOINFORMATICS AND BIOSTATISTICS
(For Regular - 2014 Admission)

Time: Three Hours   Max. Marks: 60

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

1. Expand NCBI
2. Differentiate between RAM and ROM
3. What is Rasmol?
4. Define Correlation
5. Define degree of freedom
6. What is multiple sequence alignment?
7. What is normal distribution?
8. What is gene finding?   (1 x 8 = 8)

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

9. What is quartile deviation?
10. Describe the various input devices
11. What is booting?
12. Describe FASTA sequence format
13. What is proteomics?
14. What is SNP?
15. Describe the various data collection methods
16. What is frequency curve?   (2 x 6 = 12)

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

17. Briefly describe the various operating systems
18. Describe the various nucleic acid sequence databases in bioinformatics
19. Explain the features of BLAST search engine
20. Briefly describe the different measures of central tendency
21. Describe the different tests of significance
22. What are the different types of correlation?   (5 x 4 = 20)

PART D
Answer **any two** questions. Each question carries 10 marks.

23. Write an essay on applications of bioinformatics
24. Write an essay on databases in bioinformatics
25. Explain the different types of graphical representations with examples
26. Calculate the mean deviation of the following frequency distribution

Mid value of class	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5
Frequency	10	8	18	3	4	19	18	3	2	2

(10 x 2 = 20)