Reg. No…………………………….. Name: …………………………………………

M SC DEGREE END SEMESTER EXAMINATION 2014 -15
SEMESTER -1: ZOOLOGY
COURSE: P1ZOOT04 - BIOSTATISTICS, COMPUTER APPLICATION
AND RESEARCH METHODOLOGY

Time: 3 Hours   Max. Marks: 75

Part A
Answer any eight questions.

1. Explain stratified sampling?
2. What is binomial distribution?
3. Distinguish between skewness and kurtosis
4. What are the merits and demerits of mean?
5. Explain one way ANOVA
6. What is zoobotics?
7. Explain any two accessory cards used in computer
8. What is cyber crime?
9. What is HTML?
10. Explain conceptual research
11. What is TED talk?
12. What is meant by abstracting and indexing sources?   (8 x 2 = 16)

Part B
Answer any seven questions.

13. Calculate the standard deviation of the following data

Age (yrs)	5-7	7-9	9-11	11-13	13-15	15-17
No. of students	22	63	55	38	30	12

14. Explain graphical presentation of data.
15. Explain the methods of regression analysis
16. A group of 5 patients treated with medicine 'A' weigh 42, 39, 48, 60, 41 kg. Another group of 7 patients from the same hospital treated with medicine 'B' weigh 38, 42, 56, 64, 68, 69, 62 kg. Test whether the medicine 'B' increases the weight significantly. (Table value at 5% level of significance for 10 degrees of freedom is 2.228)
17. Briefly explain different types of computer networking
18. Write an account on operating system
19. Explain different internet services
20. What are the criteria of good research?
21. Explain research extension
22. What are the presentation techniques in research communication?   (7 x 5 = 35)

Part C

Answer any two questions.

23. Explain sampling methods and sampling errors
24. Briefly describe the testing of hypothesis
25. Describe different software used in computer operation
26. Briefly explain the steps involved in research methodology   (2 x 12 = 24)