

Reg. No.....

Name: .....

**MSc DEGREE END SEMESTER EXAMINATIONS NOVEMBER - 2015**

SEMESTER: 1, SUBJECT - ZOOLOGY

COURSE- PIZOOT04- BIOSTATISTICS, COMPUTER APPLICATION AND RESEARCH METHODOLOGY

(For Regular – 2015 Admission &amp; Supplementary – 2014 Admission)

Time – Three Hours

Max. Marks: 75

**Part A**

(Answer any 8 questions .Each carries 2 marks)

1. What is F test?
2. What are cartograms?
3. Explain standard error.
4. Comment on VBG model
5. Give an account on Sample Registration System
6. What is SMPS?
7. Comment on HTML
8. What is null hypothesis?
9. Distinguish between colloquium and workshop.
10. Distinguish between conceptual and empirical research method.
11. Comment on e- books & e- encyclopaedia
12. Comment on ISO standards of safety

(2 x 8 = 16)

**Part B**

(Answer any 7 questions .Each carries 5 marks)

13. Define and compare Binomial & Normal distributions
14. Comment on types correlations & methods of correlation analysis
15. Calculate median for the following data.
 

Height in cms	-----	58	60	61	62	63	64	65	66	68	70
No. Of plants	-----	4	6	5	10	20	22	24	6	2	1
16. Calculate Standard deviation and coefficient of variation for the given data.
 

Size of shoes in inches	-----	6	7	8	9	10	11	12
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17. A random sample of size 10 had a mean =14.3 and standard deviation = 1.44. Test at 5% level of significance that the mean of the population=15.(table value for 9 degree of freedom = 2.26)
18. Comment on Application software
17. Comment on hardware and software

18. Explain the organisation and function of CPU
19. Comment on MS Power point. Explain its uses
20. Describe research extension with example
21. Give a note on Literature review

(5 x 7 = 35)

### **Part C**

(Answer any 2 questions. Each carries 12 marks)

22. Describe the characteristics, history & generation of computers. Add a note on new generation computers
23. Explain research design and types with the features of a good research design.
24. Explain the theorems of probability with suitable examples
25. Obtain the two regression.

X: -	1	2	3	4	5	6	7	8	9
Y: -	9	8	10	12	11	13	14	16	15

(12 x 2 = 24)