Reg. No .... Name **18P148**

MSc DEGREE END SEMESTER EXAMINATION - NOVEMBER 2018
SEMESTER 1 : ZOOLOGY
COURSE : **16P1ZOOT04 ; BIOSTATISTICS, COMPUTER APPLICATION AND RESEARCH METHODOLOGY**
(For Regular - 2018 Admission & Supplementary 2017/ 2016 Admissions)

Time : Three Hours   Max. Marks: 75

Section A
Answer any 8 (2 marks each)

1.   What is a sample?
2.   What is stratified sampling?
3.   Find mode
     15,16,17,17,17,18,19,20,22,25
4.   What is Karl Pearson's correlation coefficient?
5.   State the multiplication theorem of probability.
6.   Differentiate inductive reasoning and deductive reasoning
7.   Enumerate the possible motives for doing research
8.   Differentiate conference and symposium
9.   What is GUI? List its advantages.
10. Differentiate between hardware and Firmware.
11. What is algorithm? Comment on its relevance.
12. What is computer networking? Comment on its advantages.

                                                                                    (2 x 8 = 16)

Section B
Answer any 7 (5 marks each)

13. Brief on the major graphical methods to represent data.
14. Find Mode

Plant height	15-20	20-25	25-30	30-35	35-40	45-50
No. of plants	10	20	22	14	18	8

15. What is regression analysis? Which are the major methods?
16. Differentiate research methods and research methodology
17. Comment on the characteristics of a research hypothesis
18. Comment on Impact Factor
19. Comment on the importance of extension in scientific research
20. What is Cloud computing? Comment on its merits.
21. Illustrate the importance of application software with any two examples.
22. Differentiate between Bluetooth and Wi – Fi.

                                                                                    (5 x 7 = 35)

Section C
Answer any 2 (12 marks each)

23. Describe the major measures of dispersion.

24. Find Karl Pearson's correlation coefficient

X	3.5	4.2	5.6	6.5	7	8.2	8.8	9	9.7	10
Y	9.8	9	8.8	8.4	8.3	8.2	8.2	8	8	8.1

25. Give an account of experimental designs in research

26. Write an essay on different Biological Databases. Explain their role in biological research

(12 x 2 = 24)