LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2018

17PZO3MC02– RESEARCH METHODOLOGY AND BIOSTATISTICS

Date: 27-10-2018   Dept. No.   Max. : 100 Marks

Time: 09:00-12:00

Part A

Answer ALL questions   **10 × 2 = 20 Marks**

1. What is chi-square test?
2. What is trade secret and interview method?
3. What is infringement &NBA and comment on its significance?
4. What is indigenous technology?
5. Define biodiversity law and act.
6. Explain the f-ratio in ANOVA?
7. What is interquartile range?
8. What is research design?
9. Define probability and Red data in the scientific research.
10. What is questionnaire method?

Part B

Answer any FOUR questions   **4×10 = 40 Marks**

11. Discuss about the issues related to IPR and plagiarism.
12. Write the value of ethics in research methodology.
13. Explain ANOVA and state its uses.
14. Explain the techniques for survey.
15. Explain the different methods of data collection.
16. What are the types and subtypes of research?

Part C

Answer any TWO questions   **2 × 20 = 40 Marks**

17. A) What is research? Explain different components of scientific research.
    B). Discuss regression.
18. A) Write an essay on laboratory safety?
    B) Write about Standard deviation and Mean deviation.
19. A) Explain the process of preparing research report and its components?
    B) Explain IPR in detail?
20. A) Write a short notes on the significance of correlation analysis.
    B) The following data gives the length and weight of fishes. Calculate correlation coefficient.

Length in cm	5	3	4	7	6	8	5	3	9	8
Weight in gms	10	4	6	18	15	21	9	2	22	20

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