



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2017

16PZO3MC02 – RESEARCH METHODOLOGY AND BIostatISTICS

Date: 03-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part A (10x2=20)

Answer all questions, each question carries 2 marks

- 1) What are the measures of dispersion?
- 2) What are the essential characteristics of a good questionnaire?
- 3) Suggest a format for writing an article in the scientific journal.
- 4) Define IPR.
- 5) Explain a) Patent b) Copyright.
- 6) Define Plagiarism.
- 7) What is Mean and Mode ?
- 8) Difference between the Qualitative and Quantitative analysis
- 9) State Karl's Pearson's coefficient.
- 10) What is meant by Lorenz curve?

Part B (4 x 10 = 40)

Answer any four

- 11) Write short notes on: (a) Sampling error (b) Coding (c) Bibliography (d) Pilot study.
- 12) Explain the significance of a research report and narrate the various steps involved in writing such a report.
- 13) Critical review of literature is essential for carrying out research-Justify
- 14) Discuss the advantages of using computer softwares in scientific research.
- 15) What is ANOVA? Explain it with suitable illustration.
- 16) What are the important concepts relating to research design? Explain.

Part C (2 x 20 =40)

Answer any Two

- 17) (a) Explain the concept of sampling error. Briefly explain various types of sampling errors encountered in life science research.
(b) What is the procedure for avoiding non-response error in Life science research?
- 18) (a) What are the important steps of data preparation process? Explain in detail.
(b) Discuss about measures of central tendency and how they are useful in any research work.
- 19) (a) What are the classifications of measurement scales? Explain with examples.
(b) Enumerate the different methods of collecting data giving one example each.
- 20) (a) Give an detailed account on Skewness
(b) Describe about the Kurtosis with suitable examples.
