

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086**  
**(For candidates admitted during the academic year 2015 – 16 & thereafter)**

**SUBJECT CODE: 15BI/PE/RM14**

**M. Sc. DEGREE EXAMINATION, APRIL 2018**  
**BIOINFORMATICS**  
**SECOND SEMESTER**

**COURSE : ELECTIVE**  
**PAPER : RESEARCH METHODOLOGY AND SCIENTIFIC COMMUNICATION**  
**TIME : 3 HOURS** **MAX.MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS**

**(20X1=20 MARKS)**

1. Pilot study
2. Data collection
3. Peer review process
4. Epidemiology
5. Bioethics
6. Fabrication of data
7. Primary data
8. Meta analysis
9. Patent
10. Sampling
11. IRB
12. Principal Investigator
13. Scientific review group
14. Data Coherence
15. Bibliography
16. Proof reading
17. Scientific errors
18. WTO
19. Copyright
20. Impact Factor

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS.**

**(4X10=40 MARKS)**

21. Define Research and Research Methodology.
22. Write a note on electronic data sources.
23. Describe the steps required in identifying the research problem.
24. Explain the common errors that occur in scientific writing.
25. What is Plagiarism?
26. Explain the purpose of Paper critiquing.
27. Elucidate the Role of research in Basic and Applied sciences.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS**

**(2X20=40 MARKS)**

28. Explain the importance and relevance in directing research.
29. What are the guidelines to be followed for writing papers and for poster presentation?
30. Explain the structure and components in a research proposal.
31. Explain
  - a) Bioethics
  - b) IPR
  - c) Patents
  - d)TRIPS

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