

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086  
(For candidates admitted during the academic year 2011 – 12 & thereafter)**

**SUBJECT CODE: 11BI/PE/RM24**

**M. Sc. DEGREE EXAMINATION, APRIL 2014  
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)**

**I CHOOSE THE CORRECT ANSWER**

1. Tertiary data is collected from
  - a) Government journals
  - b) our own experiments
  - c) own ideas for research
  - d) from text books
2. The science of preserving and storing documents is known as
  - a) Chronology
  - b) Dendrochronology
  - c) Horology
  - d) Archiving
3. A heading of thesis should
  - a) be a complete sentence
  - b) be a inverted pyramid
  - c) give any background information
  - d) contain capital words
4. The statement of purpose in a research study should
  - a) Identify the design of the study
  - b) Identify the intent or objective of the study
  - c) Specify the type of people to be used in the study
  - d) Describe the study
5. The project design consists of two elements
  - a) project idea and setting hypothesis
  - b) planning and proposal writing
  - c) Title and evaluation
  - d) interpretation and writing thesis

**II. FILL IN THE BLANKS :**

6. End matters include \_\_\_\_\_.
7. Impact factor means \_\_\_\_\_.

**III EXPAND**

8. ICMR is \_\_\_\_\_
9. CARS \_\_\_\_\_
10. TRIPS \_\_\_\_\_

**IV ANSWER IN A LINE OR TWO:**

11. Qualitative research
12. Copyright
13. APS
14. TM
15. Bioethics
16. Chronologies
17. Citation
18. Bibliography
19. Foot notes
20. IPR

**SECTION – B****ANSWER ANY FOUR QUESTIONS.****(4X10=40 MARKS)**

21. Give the various types of tables and describe the parts of a table.
22. Describe the various types of presenting data in a thesis / report.
23. What is the importance of literature review and how is it done?
24. Discuss the various means of collecting data from electronic sources and what the measures are to ensure the quality of information?
25. Enumerate and explain the common errors in scientific writing.
26. Discuss the ethical and social issues related to the patent on Neem and Basmati.
27. Distinguish between Research methods, Research techniques and Scientific Thinking.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS**

**(2X20=40 MARKS)**

28. Describe the process of paper critiquing.
29. What is the action plan for conducting research?
30. Describe the format of thesis writing and the care needed for the various components.
31. Explain the process of obtaining a grant for research from a Government funding agency justifying your demand.

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