

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086**  
(For candidates admitted during the academic year 2009 – 10 & thereafter)  
**SUBJECT CODE: BY/PE/RB43**

**M. Sc. DEGREE EXAMINATION, APRIL 2012**  
**BIOTECHNOLOGY**  
**FOURTH SEMESTER**

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

**SECTION – A**

**ANSWER ALL THE QUESTIONS**

**(10 x 2 = 20)**

1. Intellectual property rights.
2. Genetically Modified Organism.
3. Patent.
4. Impact factor.
5. Parallelism.
6. Data collection.
7. Containment.
8. Proof reading.
9. Review of Literature.
10. TRIPS.
11. Primary data.
12. Pilot study.
13. BLAST.
14. BSLI & II.
15. Trade secret.
16. Analytical research.
17. Quantitative research.
18. Random sampling.
19. Hypothesis testing.
20. Chronology.

**SECTION – B**

**ANSWER ANY 4 QUESTIONS IN ABOUT 600 WORDS**

**(4 x 10 = 40)**

21. Describe the different issues in Human Genetics.
22. Explain Good Laboratory Practices in research.
23. Write short notes on principles and practices in research.
24. Write short notes on TRIPS.
25. Write about organization manuscript writing thesis.
26. Briefly discuss Clinical trials.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS IN ABOUT 1500 WORDS**

**(2 x 20 = 40)**

27. How do you use software packages for data analysis?
28. What is Biosafety? Add a note on different containment facilities for conducting genetic engineering experiment.
29. Give a detailed account on Genetically Modified Organisms.
30. Write an essay on impact of gene cloning.

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