

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

SUBJECT CODE: 11BY/PE/RB14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2011

BIOTECHNOLOGY
FIRST SEMESTER

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

SECTION – A

ANSWER ALL QUESTIONS: (20 x 1 = 20)

DEFINE / EXPLAIN THE FOLLOWING.

1. Pilot study
2. Primary and Secondary Data
3. Sampling
4. Histogram
5. Descriptive and Analytical Research
6. Hypothesis testing
7. Search Engines
8. Level of Significance
9. Trade Secretes
10. GATT
11. WIPO
12. Licensing
13. Plant Breeders Right
14. Risks to Human health by GMO
15. BINAS
16. Transgene stability
17. Bio-safety Level II
18. Containment
19. Superbug
20. Biohazards

SECTION – B**ANSWER ANY FOUR QUESTIONS:****(4 x 10 = 40)**

21. Bring out the details on data presentation by tabular column methods with an example.
22. Give the organization of manuscript in reference with any Indian Standard journal.
23. Explain IPR with special reference to turmeric.
24. Describe various ethical issues in relation with human genetics.
25. Narrate the protocol followed in clinical trials for a new drug.
26. Explain about various facilities required to perform genetic engineering experiments.

SECTION – C**ANSWER ANY TWO QUESTIONS: DRAW DIAGRAMS WHEREVER NECESSARY:****(2 X 20 = 40)**

27. Describe the general format for getting grants for research from a government funding agency.
28. Explain about different protection methods followed in IPR.
29. Comment on the pros and cons with reference to Bt Brinjal.
30. List out and explain various good laboratory practices followed for rDNA technology experiments.
