

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2009 – 10)

SUBJECT CODE: BY/PE/EB13

M. Sc. DEGREE EXAMINATION, NOVEMBER 2009
BIOTECHNOLOGY
FIRST SEMESTER

COURSE : ELECTIVE
PAPER : ENVIRONMENTAL BIOTECHNOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS:

(20 x 1 = 20)

1. Biobleaching
2. BOD
3. Corrothion
4. Stoichiometry
5. Pyrogen
6. Green technology
7. Aerosols
8. Xenobiotic
9. Waste stabilization
10. SOTE
11. Mutagen
12. Phytoremediation
13. Biosensor
14. Anaerobes
15. Biofuel
16. Plasmid vector
17. Vermicomposting
18. Bioaugmentation
19. Processed solid waste.
20. Biomining

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

21. How can biosensors help in environmental analysis?
22. What are the various methods of testing toxicity due to pollutants?
23. Discuss the methods involved in hazardous waste management.
24. Define plasmid and explain in brief about degradative plasmids
25. Write a note on metal leaching.
26. Explain in brief about the waste water treatment by biological filters.

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

27. Is it possible to biomonitor toxic materials? If so, Explain.
28. How are metals recovered by the use of microbes?
29. Write the detailed account on degradation of organic waste by earthworm
30. Explain the following
 - a) Ozone hole.
 - b) Acid rain.
