

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2006 – 07 & thereafter)

SUBJECT CODE: BY/PC/MI14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2007
BIOTECHNOLOGY
FIRST SEMESTER

COURSE : CORE
PAPER : MICROBIOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

Answer all questions:

20 x 1 = 20

1. Biosafety
2. BOD and COD
3. Chemolithotrophs
4. Mycoplasma
5. Potable water
6. Prions
7. Halophiles
8. Mycorrhiza
9. *Acetobacter aceti*
10. Lockjaw
11. *Tinea capitis*
12. Enterotoxin
13. Water borne Hepatitis
14. Trophozoite and cyst
15. Reverse transcriptase
16. Pasteurization
17. Chemostat
18. Acid fast bacteria
19. Viroids
20. Icosahedral symmetry.

SECTION – B**ANSWER ANY FOUR QUESTIONS EACH ANSWER NOT EXCEEDING 800****WORDS :****4 X 10 = 40**

21. Give an account of the industrial production of Penicillin.
22. Discuss the role of microbes in the treatment of sewage.
23. List out the steps involved in the production of SCP. Add a note on the advantages of SCP in nutrition.
24. Explain the industrial production of wine.
25. Name any 3 antimicrobial drugs and mention their uses in the Control of microbial growth.
26. Outline any TWO methods employed in the cultivation of Viruses.

SECTION – C**ANSWER ANY TWO QUESTIONS EACH ANSWER NOT EXCEEDING 1500****WORDS :****2 X 20 = 40**

27. Explain the cause, symptoms and control of any three of the following diseases:
a) Tuberculosis b) Rabies c) Amoebiasis d) Dental caries
28. Discuss the importance of Bergey's Manual of Systematic Bacteriology in the Classification of Bacteria.
29. Support the role of microbes in the decomposition of biodegradable waste with special reference to the recycling of carbon, nitrogen and sulphur.
30. Microbes provide a wide variety of foods for human consumption – Elaborate the statement with reference to cheese and Yoghurt.
