

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

SUBJECT CODE: BY/PC/MI14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2010
BIOTECHNOLOGY
FIRST SEMESTER

COURSE : CORE
PAPER : MICROBIOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

Answer all questions:

20 x 1 = 20

1. CPE
2. Phage typing
3. BT
4. PCR
5. Probes
6. Lyophilization
7. Rickettsia
8. Streptomyces gresius
9. Exponential phase
10. Rhizobium
11. 16sRNA
12. Chemostat
13. Starter
14. IMViC
15. Prions
16. TMV
17. Candidiasis
18. Biofuel
19. Sterilization
20. Microaerophiles

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

21. Explain any two methods employed in the measurement of growth.
22. Discuss the industrial uses of amylases.
23. Write brief notes on the production of SCP.
24. Highlight the importance of chemotherapeutic agents in the control of microbes.
Support your answer with suitable examples.
25. “Microbes are ubiquitous”. Support the statement with suitable reasons.
26. List out the steps involved in the production of Citric acid.

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

27. Write an essay on the classification of microbes. Highlight the importance of Bergey’s Manual in Bacterial classification.
28. Explain the Cause, Symptoms and Control of any THREE of the following diseases.
 - a) Tuberculosis
 - b) Dysentery
 - c) Leptospirosis
 - c) Candidiasis
29. Explain the structure, cultivation and Purification of Viruses.
30. Discuss the industrial production of Cheese. Support your answer with a flow diagram. Add a note on the types of cheese.
