

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2015 – 2016 & thereafter)

SUBJECT CODE: 15BY/PC/MI14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2018
BIOTECHNOLOGY
FIRST SEMESTER

COURSE : CORE
PAPER : MICROBIOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS:

20 x 1 = 20

1. What is Binary fission?
2. What is Autotrophic bacteria?
3. Define differential culture media.
4. What is Sauerkraut?
5. What is Botulism?
6. What is stock culture?
7. Define indicator media
8. What is immunoprophylaxis?
9. What is brewing?
10. Give 2 uses of amylase.
11. Give 2 organisms that produce vitamin B12
12. What are condiospores?
13. What is probiotics?
14. Give the significance of H₁N₁.
15. What are virions?
16. What is Aspergillosis?
17. Write the significance of Herpes virus.
18. What is Gastroenteritis?
19. What is Candidiasis?
20. Mention any 2 Plant viruses.

SECTION – B

ANSWER ANY FOUR QUESTIONS EACH ANSWER NOT EXCEEDING 800 WORDS:

4 x 10 = 40

21. Explain the reproduction and classification of fungi.
22. Mention the various types of culture media.
23. Explain the general properties of animal viruses.
24. Explain the production of streptomycin.
25. Briefly explain the pathogenesis, symptoms, prevention and control of tuberculosis.
26. Write the causes, symptoms, preventive and control measures for syphilis.
27. Explain the lytic cycle of viruses.

SECTION – C

ANSWER ANY TWO QUESTIONS EACH ANSWER NOT EXCEEDING 1500 WORDS:

2 x 20 = 40

28. Explain the ultrastructure and classification of bacteria.
29. Elaborate on the physical and chemical methods of microbial control.
30. Write an account on the production of citric acid.
31. Explain the structure, pathogenesis, symptoms, prevention and control of HIV and Ebola virus.
