

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 86

(For candidates admitted from the academic year 2019 - 2020)

B.Sc. DEGREE EXAMINATION, NOVEMBER - 2021

Branch V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SUBJECT CODE: 19BT/MC/MB 54

COURSE: MAJOR CORE

PAPER : MICROBIOLOGY

TIME: 3 HOURS

MAX.MARKS: 100

SECTION – A

ANSWER ALL THE QUESTIONS

I. Fill in the blanks:

(9 x 1 = 9 Marks)

1. Mad Cow disease is caused by _____.
2. Rod shaped bacteria in chains are called _____.
3. Peptidoglycan layer is multilayered in _____ bacteria.
4. The causal organism of Little Leaf of Brinjal is _____.
5. Nutrient agar medium is used to isolate _____.
6. Conversion of Nitrite to Nitrate is called as _____.
7. Oxidation pond is used in the purification of _____.
8. Viruses can be cultivated in _____.
9. Germ Theory of disease was proposed by _____.

III. Answer any THREE each with 50 words

(3 x 3 = 9 Marks)

10. BOD
11. Differential media
12. Prions
13. Vaccina

SECTION - B

Answer any TWO of the following questions. Each answer should not exceed

200 words. (Draw diagrams wherever necessary)

(2 x 6= 12 Marks)

14. List the different types of media used for isolation of bacteria and explain the phases in a bacterial growth curve.
15. Explain the role of Bacteria, Fungi and Actinomycetes in the process of Composting.
16. What are the causal organisms, symptoms and control measures of Root gall disease and Little leaf of Brinjal

SECTION - C

Answer any ONE of the following question. Each answer should not exceed

1000 words. (Draw diagrams wherever necessary)

(1 x 20= 20 Marks)

17. Explain in detail the structure and replication of Bacteriophages and Retroviruses
18. Enumerate the steps involved in Small scale and Large Scale sewage treatment and disposal.