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Name:

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

(Supplementary/Improvement)

CC17U FT2 B03 - FOOD MICROBIOLOGY I

(Core Course – Food Technology)

(2017 – 2018 Admissions)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

Multiple Choice:

1. Who introduced cowpox vaccination for smallpox?
a) Edward Jenner b) Louis Pasteur c) Francesco Redi d) Robert Koch
2. The body of fungi is known as.
a) filament b) thallus c) spore d) conidia
3. Rod shaped bacteria are called.
a) Bacilli b) cocci c) Vibrio d) Spiral
4. Pure culture concept was first introduced by
a) Pasteur b) Koch c) Fleming d) Jenner

Fill in the blanks:

5. is the ability of a lens to separate or distinguish between small objects that are close together.
6. Virus that infect bacteria is
7. are small circular double-stranded DNA molecules capable of independent replication present in many bacteria
8. Space seen between the plasma membrane and the outer membrane in gram negative bacteria is known as
9. Who discovered bacterial transformation?
10. Name spore forming bacteria

(10 x 1 = 10 Marks)

PART B

Answer any *five* questions. Each question carries 2 marks.

11. Write the parts of a microscope.
12. Structure of a bacteriophage.

13. Bacterial Plasma membrane.
14. Bright field microscope.
15. Contributions of Antonie van Leeuwenhoek.
16. Modes of reproduction in bacteria.
17. Capsule and slime layer.

(5 x 2 = 10 Marks)

PART C

Answer any *six* questions. Each question carries 5 marks.

18. Characteristic feature of viruses.
19. Contributions of Louis Pasteur.
20. Koch's Postulates.
21. Differentiate Prokaryotes and Eukaryotes.
22. Explain types of bacteria based on oxygen sensitivity.
23. Fungal classification.
24. Sexual reproduction methods in Fungi.
25. Write a note on morphology of virus.

(6 x 5 = 30 Marks)

PART D

Answer any *two* questions. Each question carries 15 marks.

26. Growth curve of bacteria and its importance.
27. Describe the nutritional characteristics of bacteria.
28. Explain the principle of Microscopy. Describe Transmission Electron microscope and Scanning Electron microscope.
29. Write a note on transformation, conjugation and transduction in bacteria.

(2 x 15 = 30 Marks)
