18U266   (Pages: 2)   Name……………..……

                                                           Reg. No…………………

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019
(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC17U FT2 B03 - FOOD MICROBIOLOGY I
(Core Course)

(2017 Admission onwards)

Time : Three Hours   Maximum : 80 Marks

PART A
Answer *all* the questions. Each question carries 1 mark.

1. The first direct demonstration of the role of bacteria in causing disease came from the study by

   a) Lister   b) Jenner   c) Koch   d) Redi

2. Comma shaped bacteria are called

   a) Bacilli   b) Vibrio   c) Cocci   d) Spirilla

3. Example for an ascomycete.

   a) *Agaricus*   b) *Sachharomyces*   c) *Rhizopus*   d) *Mucor*

4. -------------- bacteria use reduced inorganic substances as their electron source.

   a) Chemotrophs   b) Lithotrophs   c) Organotrophs   d) Phototrophs

Fill in the blanks:

5. The distance between the center of the lens and the focal point is called --------------.

6. Microorganisms with growth optima around 20 to 45^0C are called --------------.

7. -------------- are small, double stranded DNA molecules that can exist independently of the chromosome.

8. -------------- is known as the Father of Microbiology.

9. -------------- are viruses that attack bacteria.

10. Cell wall of fungus is made of --------------.

                                                      (10 x 1 = 10 Marks)

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

11. Discuss Electron microscopy.

12. Spontaneous Generation theory.

13. Define resolution of a microscope.

14. Define heterotrophs.

15. What is Fungi imperfecti?

16. What are halophiles?

17. Biofilms.

(5 x 2 = 10 Marks)

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

18. Write a note on economic importance of Yeast.

19. Briefly discuss on nutritional types of bacteria.

20. Explain lytic and lysogenic cycle in bacteriophages.

21. Differentiate generalized transduction and specialized transduction.

22. Explain growth curve of a bacteria.

23. Explain conjugation in bacteria.

24. Discuss on Koch's Postulates.

25. Five Kingdom Classification.

(6 x 5 = 30 Marks)

PART C
Answer any *two* of the following. Each question carries 15 marks.

26. Write a detailed note on the classification of fungi.

27. Discuss the various environmental factors that affects microbial growth.

28. Discuss Light Microscopy.

29. Briefly explain the structure of a bacterial cell with diagram.

(2 x 15 = 30 Marks)

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