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Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2015

(CUCBCSS-UG)

Core Course

Food Technology

FT 2B 03—FOOD MICROBIOLOGY—I

Time : Three Hours

Maximum : 80 Marks

Part A (Objective type)

All questions are compulsory.

Multiple Choices :

1. Under microscope *Vibrio cholera* appears as :
(a) rods. (b) comma.
(c) cocci. (d) tetrads.
2. The refractive index of oil is :
(a) 1.3. (b) 2.3.
(c) 1.0. (d) 0.9.
3. Vaccination is developed by :
(a) Pasture. (b) Jenner.
(c) Koch. (d) Leeuwenhoek.
4. Which of the following is more in Gram negative bacteria :
(a) Peptidoglycan layer. (b) Periplasmic space.
(c) lipopolysaccharide layer. (d) None of these.
5. The body of fungi is known as :
(a) Thallus. (b) Filament.
(c) Fiber. (d) Conidia.

Fill in the blanks

6. The protein coat of a phage is known as _____.
7. The bacteria that grow below 15°C are known as _____.
8. The heat resistant bodies produced by Gram positive bacteria are known as _____.

Turn over

9. The micro-organisms that rely on chemical compounds for their energy are known as _____.
10. _____ is an example to fungi that produces root like structures.

(10 × 1 = 10 marks)

Part B (Short Answer type questions)

Answer any five questions.

11. Koch's postulates.
12. Draw a typical bacterial cell and label the components.
13. Role of turbidostat in bacterial growth.
14. Classify bacteria based on pH requirements for their growth.
15. Scanning electron microscope.
16. Transduction in bacteria.
17. Asexual spores of fungi.

(5 × 2 = 10 marks)

Part C (Short Essay or Paragraph questions)

Answer any six questions.

18. Describe various methods of transfer of genetic material in bacteria.
19. Explain various physical factors that influence bacterial growth.
20. Write a note on chemotrophy in bacteria.
21. Fruiting bodies in Fungi.
22. Bacterial endospores.
23. Draw a neat diagram of a typical virus cell and write about its morphology.
24. Theory of spontaneous generation.
25. Five methods of sexual reproduction in fungi.

(6 × 5 = 30 marks)

Part D (Essay questions)

Answer any two questions.

26. Describe in detail various phases of bacterial growth curve.
27. Describe various mode of nutrition in bacteria.
28. Write about the following :—
- (a) Distinguish scanning electron microscope and transmission electron microscope.
- (b) Distinguish major difference among Gram positive bacteria and Gram negative bacteria.
29. Describe various modes of reproduction in yeasts.

(2 × 15 = 30 marks)