

D 43209

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Name.....

Reg. No.....

**SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2018**

(CUCBCSS-UG)

Food Technology

**FTL 2B 03 – FOOD MICROBIOLOGY – I**

Time : Three Hours

Maximum : 80 Marks

A. Objective Type (Answer *all* questions) :

Multiple Choices :

1. Rapid growth of bacteria can be achieved in :  
(a) Log phase. (b) Lag phase.  
(c) Stationary phase. (d) Decline phase.
2. The body of fungi is known as :  
(a) Thallus. (b) Filament.  
(c) Fiber. (d) Conidia.
3. In microscopy, the ability to distinguish two adjacent points as distinct and separate is known as :  
(a) Resolving power. (b) Magnification.  
(c) Limit of resolution. (d) Numerical aperture.
4. Pure culture technique is developed by :  
(a) Robert Koch. (b) Louis Pasteur.  
(c) Christian Gram. (d) A.V. Leeuwenhoek.
5. Father of Bacteriology :  
(a) Leeuwenhoek. (b) Lazzaro spallanzai.  
(c) Louis Pasteur. (d) Robert Koch.

Fill in the blanks :

6. Study of fungi is known as \_\_\_\_\_.
7. Light microscope was invented by \_\_\_\_\_.

Turn over

8. *Aspergillus* and *Penicillium* can be distinguished by its \_\_\_\_\_.
9. \_\_\_\_\_ is the study of viruses.
10. Increasing the water activity of the foods \_\_\_\_\_ lag phase of the bacterial growth.

(10 × 1 = 10 marks)

B. Short Answer Type Questions (Answer any *five* questions) :

11. RNV viruses with example.
12. Budding in yeasts.
13. Transformation in bacteria.
14. Dark field microscopy.
15. Phototrophs.
16. Basidiomycetes.
17. Bacterial capsule.

(5 × 2 = 10 marks)

C. Short Essay Questions (Answer any *six* questions) :

18. Endospore.
19. Draw a typical bacterial cell and label the components.
20. Log phase of bacterial growth curve.
21. Autotrophism in bacteria.
22. Transduction as a means of gene transfer.
23. Louis Pasteur.
24. Koch's postulates.
25. Classify bacteria based on temperature requirement.

(6 × 5 = 30 marks)

D. Essay questions. Answer any *two* questions :

26. Write a note on asexual reproduction in fungi.
27. Electron microscopy for microbiologists.
28. Discuss on spontaneous generation and biogenesis.
29. Distinguish prokaryotes and eukaryotes.

(2 × 15 = 30 marks)