

C 62606

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, MAY 2019

B.Sc. Food Technology

FTL 2B 03—FOOD MICROBIOLOGY-I

Time : Three Hours

Maximum : 80 Marks

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

Multiple Choices :

- 1 The outer membrane of Gram positive bacteria mainly consist of :
(a) LPS layer. (b) Peptidoglycan.
(c) Phospholipids. (d) None of these.
- 2 Which of the following is a storage material in bacteria ?
(a) Polyhydroxyalkanoates. (b) Starch.
(c) Endospore. (d) None of these.
- 3 Under light microscope cells of streptococci appear as :
(a) Cocci. (b) Cocci in chains.
(c) Tetrads. (d) Bunches.
- 4 An example to asexual spore in fungi :
(a) Blastospore. (b) Acospore.
(c) Oospore. (d) Zygosporangium.
- 5 Vaccination process in developed by :
(a) Edward Jenner. (b) Joseph Lister.
(c) Elie Metchnikoff. (d) Paul Ehrlich.

Fill in the blanks :

- 6 The other name for the polyphosphates, intracellular granules, of a bacterium is _____.
- 7 Mushrooms belong to _____ class/division of fungi.
- 8 The bacteria that grow below 10°C are known as _____.
- 9 In light microscopy, immersion oil is used while using _____ x objective.
- 10 Complete matured virus particle is known as _____.

(10 × 1 = 10 marks)

Turn over

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

- 11 Abortive transduction.
- 12 DNA viruses with examples.
- 13 Define Autotrophs.
- 14 Draw the structure of a yeast cell and label the parts.
- 15 Scanning electron microscope.
- 16 Distinguish resolving power and limits of resolution.
- 17 Fluid mosaic model.

(5 × 2 = 10 marks)

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

- 18 Fruiting bodies in Fungi.
- 19 Gram negative cell membrane.
- 20 Storage granules in bacteria.
- 21 Lag phase of bacterial growth curve and its significance.
- 22 Distinguish chemotrophism and heterotrophism.
- 23 Classify bacteria based on gaseous requirements and provide example to each.
- 24 Morphology of viruses.
- 25 Explain about the 'Germ theory of diseases'.

(6 × 5 = 30 marks)

(D) Essay Questions. Answer any *two* questions from three :

- 26 What are endospores ? What is its significance ? Indicate its arrangement with suitable example. How these are formed ?
- 27 Describe in detail various methods of transfer of genetic material in bacteria.
- 28 Describe various methods of sexual and asexual method on reproduction in yeasts.
- 29 Write a neat diagram of a typical bacterial cell, label its components and write about the key features of these.

(2 × 15 = 30 marks)