

C 41803

(Pages 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2013

(CCSS)

Food Technology

FT 2B 03—FOOD MICROBIOLOGY—I

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type (All questions are *compulsory*) :

Multiple Choices :

- 1 Organisms using chemicals as energy source is :
(a) Chemotroph. (b) Autotroph.
(c) Heterotroph. (d) Phototrophs.
- 2 The organism causing typhoid is :
(a) Clostridium. (b) Salmonella.
(c) Bacillus subtilis. (d) B. cereus.
- 3 The asexual method of reproduction is :
(a) Budding. (b) Conjugation.
(c) Transformation. (d) Transduction.
- 4 How are rod shaped bacteria called :
(a) Cocci. (b) Bacillus.
(c) Spiral. (d) Streptococcus.

Name the Following :—

- 5 The viral organism that affects bacteria is called ?
- 6 Study of virus is called ?
- 7 Organism that grows only under O₂ presence is called ?
- 8 Isolation of Organism from mixed culture is called ?

Fill in the Blanks :

- 9 Moist-heat sterilization is ———.
- 10 The mutually benefited organisms is ———.

Turn over

- 11 UV rays forms ——— in DNA of organisms.
12 Change in chromosomal arranged is called ———.

(12 × ¼ = 3 weightage)

II. Short Answer type questions. Answer all *nine* questions :

Match the following :

- | | |
|------------------------|--------------------|
| 13 Mycotoxin | — Mutation. |
| 14 UV-rays | — Fungi. |
| 15 Population decrease | — Virus. |
| 16 Electron microscope | — Serial dilution. |

State whether True or False :

- 17 Phage that affects bacteria is bacteriophage.
18 Organism that use O₂ is called anerobes.
19 Liquid N₂ acts as a preservative for microbes.
20 Sex pili helps in reproduction.
21 Bacillus subtilis is a soil bacteria.

(9 × 1 = 9 weightage)

III. Short Essay or Paragraph Questions. Answer any *five* questions from seven :

- 22 State Koch's Postulate.
23 What is transformation ?
24 What is resolution means ?
25 Define: Chemotroph.
26 Give the use of condenser lens.
27 What is lysogenic cycle ?
28 Give the use of phase contrast microscope.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions from *three* :

- 29 Schematize and explain Scanning electron microscope.
30 Discuss the different types of bacteria.
31 Discuss the different reproduction methods.

(2 × 4 = 8 weightage)