

C 62687

(Pages 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(UG-CCSS)

Food Technology

FT 2B 03—FOOD MICROBIOLOGY—I

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type. All questions are compulsory :

Multiple Choice :

- 1 Mutation occur at one single loci is called :
(a) Point mutation. (b) Mutation.
(c) Chromosomal Aberration. (d) Transformation.
- 2 Methods of removal of micro-organism is called :
(a) Pasteurization. (b) Sterilization.
(c) Intoxication. (d) Infection.
- 3 The method of reduction of microbial population is :
(a) Pour plate. (b) Streak plate.
(c) Stabbing. (d) Serial dilution.
- 4 The five kingdom concept was given by :
(a) Robert Koch. (b) Leeuwenhock.
(c) Louis Pasteur. (d) Whittaker.

Name the Following :

- 5 The media used to enrich the organism.
- 6 The outer most layer of bacterial cell wall is :
- 7 The process of breakdown of glucose to pyruvate is :
- 8 Name the process identified by Tyndall.

Fill in the Blanks :

- 9 *Acidophilus* grow best at the pH _____.
- 10 _____ are involved in humoral response.

Turn over

11 The mitochondria is the site of _____.

12 T cells get matured in _____.

(12 × ¼ = 3 weightage)

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

Match the following :

- | | |
|-----------------|--------------------------------|
| 13 Disinfectant | <i>Bacillus Thuringiensis.</i> |
| 14 UV-rays | Chemical Mutagen. |
| 15 EMS | Ethanol. |
| 16 Bt | Physical Mutagen. |

State whether True or False :

- 17 Alexander discovered penicillin.
- 18 Attenuated culture is Vaccine.
- 19 Facultative anaerobes grown in absence of oxygen.
- 20 Mycotoxin is produced by bacteria.
- 21 Thermes aquatic grow at low temperature.

(9 × 1 = 9 weightage)

III. Short essay or Paragraph questions. Answer any 5 questions from 7 :

- 22 Define continuous and synchronous culture.
- 23 Define resolving power and numerical aperture.
- 24 How will you classify the micro-organism based on their salt environment ?
- 25 Define staining and write the purpose of staining.
- 26 Differentiate aerobic, anaerobic, aero tolerant and micro aerophile.
- 27 Define Pure Culture.
- 28 List the method of isolation.

(5 × 2 = 10 weightage)

IV. Essay Questions. Answer any *two* questions from 3 :

- 29 Discuss the energy production of micro-organism by aerobic process.
- 30 Write and explain different types of staining.
- 31 Write about physical requirements for the growth of micro-organism.

(2 × 4 = 8 weightage)