

C '41815

(Pages : 2)

Name.....

Reg. No.....

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

(CCSS)

Biotechnology

BT2 B01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type Questions. Answer *all* twelve questions :

A. Multiple Choice :

1 Who 1st introduce pure culture technique ?

- (a) Pasteur. (b) Jenner.
(c) Koch. (d) Lister.

2 Nutrient agar is an example of :

- (a) Simple media. (b) Complex media.
(c) Synthetic media. (d) Natural media.

3 Which among possess endospore ?

- (a) E. coli. (b) Clostridium.
(c) Klebsiella. (d) Pseudomonas.

4 Endotoxic activity is due to :

- (a) N. acetyl glucosamine. (b) N-acetyl muramic acid.
(c) Lipopolysaccharide. (d) Polypeptide.

B. Fill in the blanks :

5 The bacteriophages which can follow both lytic and lysogenic cycle is known as _____

6 Volutin granules are also known as _____

7 Fractional sterilization is also known as _____

8 The confirmatory test for AIDS is _____

C. Answer in one word :

9 Comma shaped bacteria are called.

10 Decolourising agent used in gram staining is.

11 What is the refractive index of oil.

12 What is the locomotory organ of bacteria ?

(12 x $\frac{1}{4}$ = 3 weightage)

Turn over

II. Short Answer Type Questions. Answer *all* nine questions :

- | | |
|---------------------------|-----------------------|
| 13 Plasmid. | 14 Peplomers. |
| 15 Antisepsis. | 16 Tyndallization. |
| 17 Mesosomes. | 18 Volutin granules. |
| 19 T phage. | 20 Negative staining. |
| 21 Facilitated diffusion. | |

(9 x 1 = 9 weightage)

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

- 22 Structure of bacteriophage.
- 23 Autoclaving.
- 24 Contributions of pasteur.
- 25 Structure and functions of bacterial endospore.
- 26 Structure and functions of bacterial flagella.
- 27 General characteristics of viruses.
- 28 Medically important fungi.

(5 x 2 = 10 weightage)

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

Explain the following :-

- 29 Describe TCA cycle.
- 30 Viral replication and cultivation methods.
- 31 Describe sterilization methods.

(2 x 4 = 8 weightage)