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 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)