

D 32482

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JANUARY 2013

(CCSS)

Microbiology

MB 1B 01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* twelve questions :

Choose the correct answer :

1 Serum can be sterilized by :

- (a) By Autoclaving. (b) By Tyndallization.
(c) By Pasteurization. (d) By filtration.

2 Which among the following is an enrichment media ?

- (a) Blood agar. (b) MacConkey agar.
(c) Selenite broth. (d) Chocolate agar.

3 Site of action of chloramphenicol is :

- (a) 30s ribosome. (b) Nucleic acid.
(c) Cell wall. (d) 50s ribosome.

4 Helical bacteria are known as :

- (a) Cocci. (b) Vibrio.
(c) Spirilla. (d) Bacillus.

Answer in *one word* :

5 Example for selective differential media.

6 Expand HEPA.

7 Function of carboxysomes.

8 Penicillin's site of action on bacteria.

Fill in the blanks :

9 The protein present in flagellar filament is _____

10 The anti-microbial agents used to treat infections are called _____

11 Cyanophages infect _____ cells.

12 The refractive index of oil is _____

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

Turn over

II. Answer *all* nine questions :

- 13 Prokaryotic ribosome.
- 14 Biomembrane.
- 15 Bacteriostasis.
- 16 Phenol coefficient.
- 17 Magnetosomes.
- 18 Paul Ehrlich.
- 19 Action of Tetracycline.
- 20 'O' antigen.
- 21 Mesosomes.

(9 x 1 = 9 weightage)

III. Write short notes on any *five* questions :

- 22 Structure and function of **endospore**.
- 23 Storage granules in bacteria.
- 24 Structure of **bacteriophages**.
- 25 Differences between Prokaryotes and **Eukaryotes**.
- 26 Describe pure culture techniques.
- 27 Contribution of Robert Koch in the field of Microbiology.
- 28 Explain the structure and function of bacterial cell wall.

(5 x 2 = 10 weightage)

IV. Answer any *two* questions :

- 29 Discuss the various physical methods of sterilization.
- 30 With diagram, explain the **ultrastructure** of Bacteria.
- 31 Write an essay on Microscopy.

(2 x 4 = 8 weightage)