

## FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JULY 2013

(CCSS)

Microbiology

MB1 B01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* twelve questions :

Choose the correct answer

1 The Prokaryotic ribosome is :

- (a) 60s. (b) 80s.  
(c) 70s. (d) 50s.

2 Who discovered Anthrax bacilli :

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

3 Which among is a Negative stain :

- (a) Nigrosine. (b) Malachite green.  
(c) Geisma. (d) Methylene

4 Pencillin resistant microorganism is :

- (a) Mycoplasma. (b) Stephytoccus.  
(c) Mycobacterium. (d) Streptococcus.

Answer in *one* word :

5 Write any two antiviral drug.

6 What is Tyndalization ?

7 What is Cold Sterilization ?

8 What is Antisepsis ?

Fill in the blanks :

9 The aerobic organism produce \_\_\_\_\_ enzyme to eliminate superoxide radicals.

10 A single isolation of pure culture is known as \_\_\_\_\_

Turn over

- 11 The outer membrane of gram –ve cell wall posers.
- 12 Sterilization by radiation is also known as \_\_\_\_\_

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

II. Answer *all* nine questions :

Comment on :

- 13 Koch postulates.
- 14 Phenolic compounds.
- 15 Goose neck experiment.
- 16 Functions of capsule.
- 17 Antimicrobial action of cephalosporins.
- 18 Sex pili.
- 19 Mesosome.
- 20 Ultraviolet radiation.
- 21 Fuelgen staining.

(9 x 1 = 9 weightage)

III. Write short notes on any *five* questions out of seven :

- 22 Principle and functioning of electron microscope.
- 23 Anaerobic culture methods.
- 24 Chemical antimicrobial agents.
- 25 Differential staining methods.
- 26 Different forms of viruses.
- 27 Structure and function of flagella.
- 28 Contribution of Pasteur in the field of Microbiology.

(5 x 2 = 10 weightage)

IV. Answer any *two* questions out of three :

- 29 Discuss about **chemo** therapeutic agents and their mode of action.
- 30 Write an essay on different staining methods employed in Microbiology.
- 31 Explain the classification of media and that specific uses.

(2 x 4 = 8 weightage)