

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 blue.

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 'A. = 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)