

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2016

(UG—CCSS)

Biotechnology

BT 6E 01—MEDICAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer *all* questions :

1 Which among possess endospore ?

- | | |
|---------------------|------------------|
| (a) Bifidobacteria. | (b) Clostridium. |
| (c) Klebsiella. | (d) Pseudomonas. |

2 Who introduced vaccination ?

- | | |
|--------------------|------------------------|
| (a) Pasture. | (b) Koch. |
| (c) Edward Jenner. | (d) Alexander Fleming. |

3 Which among the following is an enriched medium ?

- | | |
|--------------------|---------------------|
| (a) Nutrient agar. | (b) Citrate medium. |
| (c) Blood agar. | (d) Nitrate media. |

4 Clostridium perfringens poisoning is associated with :

- | | |
|------------------|--------------------|
| (a) Vegetables. | (b) Meat product. |
| (c) Canned food. | (d) Fish products. |

5 Key feature of innate immunity :

- | | |
|---------------|---------------|
| (a) Specific. | (b) In born. |
| (c) Unstable. | (d) Acquired. |

6 Which among is not a secondary lymphoid tissue ?

- | | |
|------------------|-------------|
| (a) Tonsil. | (b) Spleen. |
| (c) Bone marrow. | (d) GALT. |

Say True or False :

- 7 E. coli causes pyogenic infections.
- 8 Opsonization increases the efficiency of phagocytosis.
- 9 A condition in which growth of bacteria is prevented is known as bactericidal.
- 10 Erythromycin prevents the protein synthesis by binding on the 30S subunit of ribosome.

Turn over

11 Ethylene oxide is a sterilizing agent.

12 Rabies virus is an enveloped virus.

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

II. Write brief notes on *all* of the following :-

13 Selective and differential media.

14 Mycoplasma.

15 Shigellosis.

16 Coagulase-ve Staphylococci.

17 Phagocytosis.

18 Immunoprophylaxis.

19 Tryponema pallidum.

20 Affinity and avidity.

21 Nosocomial infections.

(9 x 1 = 9 weightage)

III. Paragraph questions. Answer any *five* questions :

22 Give a brief note on scarlet fever.

23 Primary lymphoid organs.

24 Explain different Morphological forms of Bacteria.

25 Describe different viral cultivation methods.

26 Explain the diagnosis and control measures of HIV.

27 What are the major properties of pathogenic bacteria ?

28 Give an account on Pneumococcus infections.

(5 x 2 = 10 weightage)

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

29 What is Sterilization ? Explain different sterilization methods.

30 What are general features of enterobacteriaceae ? Discuss clinical significance of each group.

31 What is Immunotherapy ? Discuss cancer immunotherapy.

(2 x 4 = 8 weightage)