

C 40532

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2013

(CCSS)

Biotechnology

BT6 E01—MEDICAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type Questions. Answer *all* questions :

1 Nutrient agar is an example of :

- | | |
|----------------------|--------------------|
| (a) Simple media. | (b) Complex media. |
| (c) Synthetic media. | (d) Natural media. |

2 Serum can be sterilized by :

- | | |
|----------------------|-------------------|
| (a) Using chemicals. | (b) Filtration. |
| (c) Autoclaving. | (d) Kept in oven. |

3 Who introduced vaccination ?

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

4 Which among the following possess endospore ?

- | | |
|-------------------------|--------------------------|
| (a) <i>E.coli</i> . | (b) <i>Clostridium</i> . |
| (c) <i>Klebsiella</i> . | (d) <i>Pseudomonas</i> . |

5 Which one is a spirochaeta ?

- | | |
|-----------------------|--------------------------|
| (a) <i>Borrelia</i> . | (b) <i>Vibrio</i> . |
| (c) <i>Nocardia</i> . | (d) <i>Pseudomonas</i> . |

6 Which one is a primary lymphoid organ ?

- | | |
|----------------------|------------------|
| (a) Spleen. | (b) Lymph nodes. |
| (c) Peyer's patches. | (d) Thymus. |

State True or False :

7 Confirmatory test for HIV is ELISA.

8 The causative agent of Rheumatoid arthritis is *pseudomonas*.

9 Agglutination occurs due to particulate antigen.

10 Post transfusional hepatitis occurs due to NANB hepatitis virus.

11 Rabies virus is an adenovirus.

12 Vancomycin is a glycopeptide antibiotic.

(12 x ¼ = 3 weightage)

Turn over

II. Short Answer Type Questions. Answer *all* nine questions :

- 13 P₅₃ gene.
- 14 Hepatitis B virus.
- 15 **Nosocomical** infection.
- 16 **Immunomodulators**.
- 17 Sulfa drugs.
- 18 **Shigellosis**.
- 19 Antigenic determinant.
- 20 Dimorphic fungi.
- 21 Pasteurization.

(9 x 1 = 9 weightage)

III. Short Essay. Answer any *five* questions :

- 22 Clinical significance of **Enterobacteriaceae**.
- 23 Causative agents of **pyogenic** infections.
- 24 General properties of viruses.
- 25 Explain the mechanism of virus host interactions.
- 26 Describe **IMVIC** test.
- 27 Protein synthesis inhibitory drugs.
- 28 Structure and mechanism of infection of HIV.

(5 x 2 = 10 weightage)

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

- 29 Describe various antigen-antibody interactions and its applications in disease diagnosis.
- 30 Write an essay on different classes of antimicrobial agents.
- 31 Describe different methods of sterilization.

(2 x 4 = 8 weightage)