

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) E.coli. (b) Clostridium.
(c) Klebsiella. (d) Pseudomonas.

5 Which one is a spirochaeta ?

- (a) Borrelia. (b) Vibrio.
(c) Nocardia. (d) Pseudomonas.

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 Nosocomial 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)