C 60217   (Pages : 2)   Name......................................

Reg. No.................................

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2014

(UG–CCSS)

Biotechnology (Elective Course)

BT 6E 01—MEDICAL MICROBIOLOGY

Time : Three Hours   Maximum : 30 Weightage

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

1 Father of medical microbiology :

(a) Pasteur.   (b) Jenner.

(c) Koch.   (d) A.L. Hock.

2 Killed polio vaccine is :

(a) Sabin Vaccine.   (b) Salk vaccine.

(c) BCG.   (d) TAB.

3 Cellular immune response is mediated by :

(a) B cell.   (b) T cell.

(c) NK cell.   (d) Endothelial cell.

4 Who discovered Anthrax Bacilli :

(a) Koch.   (b) Needham.

(c) Lister.   (d) Pasteur.

5 Comma shaped bacteria is known as :

(a) Spirilla.   (b) Vibrio.

(c) Bacillus.   (d) Cocci.

6 Beta-haemolytic bacteria is :

(a) Streptococcus faecalis.   (b) Streptococcus pneumonia.

(c) Streptococcus viridans.   (d) Streptococcus pyogenes.

State True *or* False :

7 Nutrient agar is an on riched medium.

8 Clostridium is an aerobic bacterium.

9 The dengue fever virus is Arbo virus.

10 Ascosporen are sexual spores.

Turn over

11 Smallest virus is parvovirus.

12 IgM is the major immunoglobulin present in the serum.

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

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

13 Candidiasis.

14 Yersiniapestis.

15 Western-blotting.

16 Passive immunity.

17 Complement.

18 ID$_{50}$.

19 Distinguish sterilization and disinfection.

20 Morphology of bacteria.

21 Immune modulation.

(9 x 1 = 9 weightage)

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

22 General properties of Enterobacteriacea.

23 Describe bacterial identification methods.

24 Medical importance of Rickettesia and Chlamydea.

25 Give a brief account on nosocomial infections.

26 Give a brief account on Hepatitis virus and its clinical importance.

27 Explain the strucure of immunoglobulin and different classes of immunoglobulins.

28 What is immunity ? Classify different types of immunity and their specific functions.

(5 x 2 = 10 weightage)

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

29 Write an essay on cells and organs of immune system.

30 Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis.

31 Explain the structure and multiplication of 11W.

(2 x 4 = 8 weightage)