

C 60217

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

1 Father of medical microbiology :

- (a) Pasteur. (b) **Jenner.**  
(c) Koch. ~~—————~~ (d) ~~A.L. Hoek.~~

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 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<sub>50</sub>**.

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 **Enterobacteriaceae**.

23 Describe bacterial identification methods.

24 Medical importance of **Rickettsia** and **Chlamydia**.

25 Give a brief account on **nosocomial** infections.

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

27 Explain the **structure** 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 HIV.

(2 x 4 = 8 weightage)