C 80118

Name

Reg. No. · · · · · · · · · · · · · · · · · ·

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2015

(U.G–CCSS)

Core Course—Microbiology

MB 6B 19—IMMUNOLOGY

Maximum : 30 **Weightage**

Time : Three Hours

I. Answer all the *twelve* questions. Each carries **weightage** : ¼

Choose the correct answer :

1 Which test is used for the diagnosis of syphilis ?

    (a) **Widal.**   (b) **VDRL.**

    (c) Weil-Felix.   (d) Paul **Bunnel.**

2 **Ig** E mediates which type hypersensitivity ?

    (a) Type I.   (b) Type II.

    (c) Type III.   (d) Type IV.

3 Local immunity is provided by :

    (a) **Ig** M.   (b) **Ig** G.

    (c) **Ig** A.   (d) **Ig** D.

4 An example for a live vaccine is :

    (a) **BCG.**   (b) TAB.

    (c) **OPV.**   (d) All the three.

Fill in the blanks :

5 The process of engulfing foreign particles by a macrophage is called ———————

6 The **immunoglobulin** which can cross the placenta is ——————

7 Antigenic determinant is otherwise known as ——————

8 **Hybridoma** technology is used for the production of ——————

Expand the following :-

9 **GVH** reaction.

10 **BCG.**

11 **VDRL.**

12 **IPV.**

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

II. Answer all the *nine* questions in one *or* two sentences each. Each carries **weightage : 1**

Comment on the following :-

13 **Cytokines.**

14 Precipitation reaction.

15 Natural killer cells.

16 Coombs test.

17 Weil Felix test.

18 Reverse passive agglutination.

19 Organ specific antigens.

20 **Diapedesis.**

21 B lymphocytes.

(9 x 1 =9 **weightage**)

III. Write briefly on any *five* of the following. Each carries **weightage : 2**

22 Delayed hypersensitivity.

23 **ELISA.**

24 **Phagocytic** cells.

25 Structure of Ig A.

26 Classification of hypersensitivity.

27 Pathology of Rheumatoid arthritis.

28 Monoclonal antibodies.

(5 x 2 = 10 **weightage**)

IV. Answer any *two* of the following. Each carries weightage : 4

29 Discuss the different theories of immune response.

30 Explain the cells and organs of immune system.

31 Describe any four serological tests with their clinical applications.

(2 x 4 = 8 weightage