C 40491   (Pages : 2)   Name.........................

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

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2013

(CCSS)

Microbiology

MB 6B 19—IMMUNOLOGY

Time : Three Hours   **Maximum :** 30 Weightage

I. Answer *all* twelve questions. Each carries $\frac{1}{4}$ weightage :

1 Anaphylaxis is mediated by which antibody **?**

    (a) IgG.   (b) IgE.

    (c) IgA.   (d) IgM.

2 Antigenic determinant is also called ————

3 Vaccination provides **:**

    (a) Natural active immunity.   (b) **Natural passive immunity.**

    (c) Artificial active immunity.   **(d) Artificial passive immunity**

4 Rheumatoid arthritis is a **:**

    (a) Autoimmune disease.   **(b) Infectious disease.**

    (c) Hypersensitivity reaction.   **(d) None of these.**

5 The function of a dendritic cell is to present _____ to a BIT cell.

6 The antibody which can cross the placental barrier is _____

7 _____ test is done for the serodiagnosis of enteric fever.

8 Expand VDRL.

9 Incomplete antigen is called _____

10 Monoclonal antibodies are directed towards a single _____

11 Serum sickness is a type of _____ hypersensitivity.

12 Macrophages are large _____ cells.

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

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

   13 Hybridoma.   14 Parasite.

   15 Immunogenicity.   16 Clone.

   17 Natural passive immunity.   18 ELISA.

   19 Innate immunity.   20 NK cells.

   21 IgA.

                                            x 1 = 9 weightage)

Turn over

III.   Answer briefly on any *five* questions out of seven. Each carries **weightage** 2 :

22 Inflammation.   23 Western blot test.

24 Rheumatoid arthritis.   25 Active immunity.

26 Complement pathways.   27 Structure of IgM.

28 Anaphylatoxins.

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

IV.   Answer any *two* questions in detail. Each carries **weightage** 4 :

29 Discuss the different mechanisms of innate immunity.

30 Discuss the classification of **autoimmune** diseases with examples. Describe the pathogenesis of rheumatoid arthritis.

31 Discuss the clinical applications of **variuos** antigen-antibody reactions.

2 x 4   **weightage)**