

C 40491

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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 TIT 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 $\frac{1}{4}$ = 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 **various** antigen-antibody reactions.

(2 x 4 **weightage**)