

Vinayaka Mission's Kirupananda Variyar Medical College, Salem.
Department of Microbiology

II MBBS 78 + 22 BATCH- I Sessional- 17.12.2019

Time: 3 hours

Max.marks:80

I. MCQ's (Time 15 minutes)

(15x1=15)

1. Which of the following is the character of live vaccine?
 - a. May be effective orally
 - b. Require more than 2 doses
 - c. Less immunogenic
 - d. Strict conditions of storage not generally required
2. Incomplete or blocking antibodies are detected by:
 - a. Coombs' test
 - b. Paul-Bunnell test
 - c. Weil-Felix test
 - d. All of these
3. Prozone is a zone of:
 - a. Ag excess
 - b. Ab excess
 - c. Equivalence
 - d. incomplete antigens
4. Which antibody has diagnostic value in congenital infections
 - a. IgA
 - b. IgE
 - c. IgM
 - d. IgG
5. Which of the following substances will not stimulate an immune response unless they are bound to a larger molecule?
 - a. Antigen
 - b. Virus
 - c. Hapten
 - d. Miligen
6. All the cells process and present antigens except
 - a. B cells
 - b. Macrophages
 - c. Basophils
 - d. Dendritic cells
7. The following are disorders of combined immunodeficiencies except
 - a. Ataxia telangiectasia
 - b. Wiskott-Aldrich syndrome
 - c. Immunodeficiency with thymoma
 - d. Transcobalamin II deficiency
8. A living microbe with reduced virulence that is used for vaccination is called
 - a. A toxoid
 - b. Dormant
 - c. Virulent
 - d. Attenuated
9. B cells are activated by
 - a. Antigen presenting cell
 - b. MHC II
 - c. Helper T cells
 - d. MHC I

10. Antigen recognition in T cytotoxic cells is
 - a. Class I MHC restricted
 - b. Class II MHC restricted
 - c. Class III MHC restricted
 - d. No MHC restriction
11. Which is not the function of activated T cells
 - a. Activation of B cells
 - b. Activation of NK cells
 - c. Regulate the functions of macrophages
 - d. Activation of TC cells
12. Complement participates in following hypersensitivity reaction:
 - a. Type II
 - b. Type IV
 - c. Type I
 - d. All of these
13. A 21 year old male has been diagnosed to have mitral regurgitation by echo cardiography. He gives a history of Rheumatic fever at the age of 8, what type of autoimmune reaction is it?
 - a. Neo antigens
 - b. Polyclonal B cell activation
 - c. Cross reaction antigens
 - d. Molecular mimicry
14. Which graft is easily accept by immune system
 - a. Autograft
 - b. Isograft
 - c. Allograft
 - d. Xenograft
15. Which is true about tumor specific transplantation antigens.
 - a. They occur in normal cells
 - b. They occur due to mutations
 - c. They are not unique to tumor cells
 - d. T Cytotoxic cells do not recognize them

II. Essay:

(15x2=30)

1. a. What are Complements & how are they activated (2 marks)
 b. Describe Complement Classical pathway (8 marks)
 c. List out the biological functions of Complements (3 marks)
 d. Mention two Complement deficiencies (2 marks)
2. a. Define & classify Hypersensitivity (3marks)
 b. Describe the mechanism of Type I hypersensitivity (5marks)
 c. List out the primary & secondary mediators (4marks)
 d. Write a note on the subtypes of anaphylaxis. (3marks)

(5x5=25)

III. Write short notes on:

1. Innate Immunity
2. IgG
3. Agglutination
4. Humoral Immune response
5. Mechanisms of Autoimmunity

IV. Write briefly on:

(2x5=10)

1. What are Hetrophile antigens? Give examples.
2. T cells.
3. What are monoclonal antibodies? What are their uses?
4. Mention two manifestations of type III Hypersensitivity with examples.
5. Graft Vs Host reaction.



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II MBBS 78 +22+1 Batch

I Sessional Examination (17.12.19)

MCQ Answer Key sheet

1	A
2	A
3	B
4	C
5	C
6	C
7	D
8	D
9	C
10	A
11	B
12	A
13	C
14	A
15	B



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