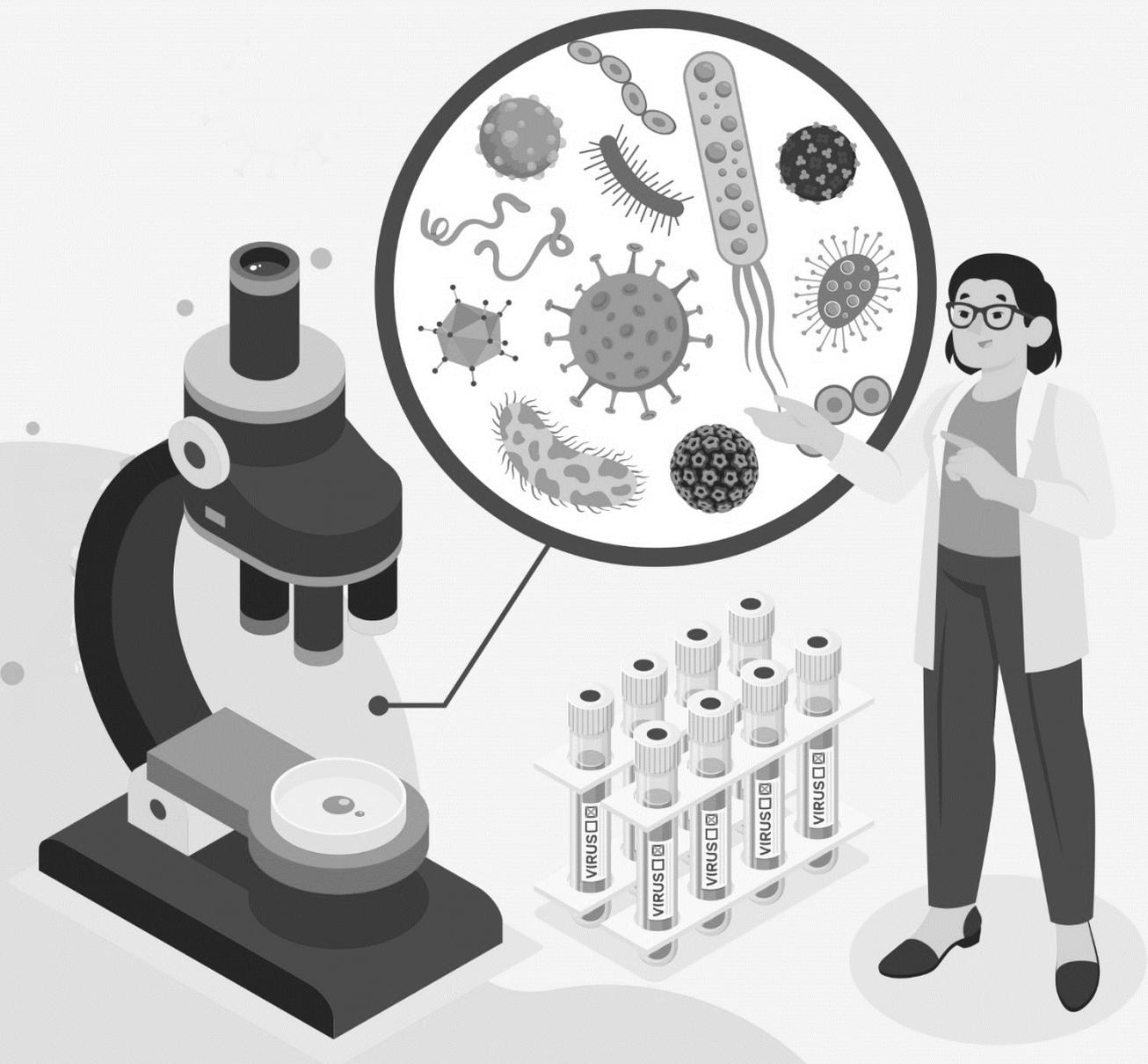


level 1
semester 2

MICROBIOLOGY

DR. ZIAD MAHANA

MCQ LECTURE 5





MCQ MICRO LECTURE 5

<p>1. Which class of antibodies is responsible for opsonizing (coating) microbes?</p> <ul style="list-style-type: none">a) IgMb) IgGc) IgAd) IgE	<p>B</p>
<p>2. Which cells are activated to release their granule contents and kill helminthic parasites?</p> <ul style="list-style-type: none">a) Natural Killer (NK) cellsb) Ig Ec) Neutrophilsd) B cells	<p>B</p>
<p>3. What is the role of memory cells in the immune response?</p> <ul style="list-style-type: none">a) They produce antibodies.b) They recognize antigens.c) They present antigens to T cells.d) They provide long-lasting immunity upon re-exposure to an antigen.	<p>D</p>
<p>4. Which type of T cells are involved in the direct killing of infected cells?</p> <ul style="list-style-type: none">a) CD4+ T helper cellsb) CD8+ cytolytic cells (CTLs)c) Regulatory T cells (Tregs)d) Memory T cells	<p>B</p>
<p>5. Which molecule on antigen-presenting cells (APCs) interacts with CD28 on T cells to provide a co-stimulatory signal?</p> <ul style="list-style-type: none">a) MHC class Ib) MHC class IIc) B7d) CD3	<p>C</p>



<p>6. Which cells are responsible for the production of specific immunologic memory for antigens?</p> <ul style="list-style-type: none">a) B cellsb) T cellsc) Macrophagesd) Eosinophils	A
<p>7. Class I MHC present antigen to:</p> <ul style="list-style-type: none">a. Th (CD4).b. NK.c. Tc (CD8).d. Monocytes.e. Macrophages	C
<p>8. During activation of T cells, the 1st signal is:</p> <ul style="list-style-type: none">a. peptide + CD8 on the surface of APCs recognized by TCR-CD3.b. peptide + B7 on the surface of APCs recognized by TCR-CD3.c. peptide + MHC on the surface of APCs recognized by TCR-CD3.d. peptide + Fc on the surface of APCs recognized by TCR-CD3..e. peptide + C3b on the surface of APCs recognized by TCR-CD3.	C
<p>9. The secondary humoral immune response includes the following:</p> <ul style="list-style-type: none">a. There is more rapid appearance of antibodyb. The antibody is IgG (or IgA, or IgE)c. Remains detectable for months or yearsd. All of the above	D
<p>10. Class II MHC present antigen to:</p> <ul style="list-style-type: none">a. T helper (CD₄)b. NKc. T cytotoxic (CD8)d. Mast cells	A
<p>11. The peptide-binding cleft or groove of class II MHC molecule is formed by:</p> <ul style="list-style-type: none">a. $\alpha 1$ & $\alpha 2$ domainsb. $\alpha 2$ & $\alpha 3$ domainsc. $\alpha 1$ & $\beta 1$ domainsd. $\alpha 2$ & $\beta 2$ domainse. $\beta 2$ microglobulin & $\alpha 3$ domain	C



<p>12. Which of the following is considered an activator of macrophage?</p> <ul style="list-style-type: none">a. IL-10b. IL-5c. INF-αd. INF-γe. Stem cell factor	D
<p>13. In human, MHC class II molecules are expressed by:</p> <ul style="list-style-type: none">a. All nucleated cellsb. Macrophage, DC & B lymphocytesc. Basophilsd. Mast celle. Erythrocytes	B
<p>14. Which one of the following substances is not released by activated T helper cells?</p> <ul style="list-style-type: none">a. IL-1b. INF-γc. IL-4d. IL-2	A
<p>15. The following is true for 1ry immune response:</p> <ul style="list-style-type: none">a. More rapid appearance of Abb. Greater amountc. IgM Classd. Remains detectable for months or years	C
<p>16. The following is true for 2ry immune response except:</p> <ul style="list-style-type: none">a. More rapid appearance of Abb. Greater amountc. IgG Classd. Remains detectable for few days	D



<p>17. The enzyme perforin in adaptive immunity cause</p> <ul style="list-style-type: none">a. Activation of cell to secret cytokinesb. Increase expression of MHC Ic. Increase expression of MHC IId. Pores in target cell membranee. Inhibition of caspase	<p>D</p>
<p>18. The structure of human class I MHC molecule is formed of :</p> <ul style="list-style-type: none">a. 2 polypeptide chain α chain formed of 2 domains (α_1, α_2), attached to β_2 microglobulinb. 3 polypeptide chain α chain formed of 2 domains (α_1, α_2), attached to α_2 microglobulin and β_2 microglobulinc. 2 polypeptide chain α chain formed of 3 domains ($\alpha_1, \alpha_2, \alpha_3$), attached to β_2 microglobulind. 2 polypeptide chain α chain formed of 2 domains (α_1, α_2), attached to β_2 chaine. 2 polypeptide chain α chain formed of 2 domains (α_1, α_2), attached to β_2 chain formed of (β_1, β_2).	<p>C</p>
<p>19. Opsonization is defined as:</p> <ul style="list-style-type: none">a. Coating of bacteria or viruses by IgG or C3bb. Fusion of the lysosome with the phagosomec. Invagination of the cell membrane enclosing the particled. Migration of cells across vascular wallse. Movement of cells in response to chemical stimulus	<p>A</p>
<p>20. Which of the following NK cells receptor bind to MHC I molecule?</p> <ul style="list-style-type: none">a. CD16b. Fc receptor for IgGc. Killer inhibitor receptor(KIR)d. KARe. TCR	<p>C</p>
<p>21. Which of the following cells is APC?</p> <ul style="list-style-type: none">a. Dendritic cellsb. NK cellsc. T lymphocyted. B lymphocytee. Neutrophils	<p>A& D</p>



<p>22. Which of the following is considered an activator of macrophage?</p> <ul style="list-style-type: none">a. IL-10b. IL-5c. INF-αd. INF-γe. Stem cell factor	<p>D</p>
<p>23. All nucleated cells</p> <ul style="list-style-type: none">b. Macrophage, DC & B lymphocytec. Basophilsd. Mast celle. Erythrocytes	<p>B</p>
<p>24. The agent that stimulate the immune system and increase the immune response to vaccine is called:</p> <ul style="list-style-type: none">a. adjuvantb. caspasec. Complementd. Immunosuppressivee. MHC molecule	<p>A</p>
<p>25. Which cells of the following important effector cell in allergic reaction?</p> <ul style="list-style-type: none">a. Basophilsb. Neutrophilsc. Lymphocyted. monocytes	<p>A</p>
<p>26. Vaccination protect us from infection disease by generating memory cell from:</p> <ul style="list-style-type: none">a. Agb. Lymphocytec. Macrophaged. PMNse. Stem cell	<p>B</p>



<p>27. molecule:</p> <ul style="list-style-type: none">a. CD₂b. CD₃c. CD₄d. IL-2 receptore. Class II MHC	<p>C</p>
<p>28. Which of the following cells have been implicated in the prevention of autoimmune response?</p> <ul style="list-style-type: none">a. Anergized T cellsb. APCc. T regulatory cellsd. Follicular DCe. Naïve T cell	<p>C</p>
<p>29. there is more rapid appearance of antibody.</p> <ul style="list-style-type: none">b. the antibody is IgG (or IgA, or IgE)c. remains detectable for months or years.d. all of the above	<p>D</p>
<p>30. B cells are distinguished from T cells by the presence of:</p> <ul style="list-style-type: none">a) CD₃b) CD₄c) CD₈d) class 1 MHC antigene) surface Immunoglobulin	<p>E</p>
<p>31. Movement of phagocytic cells in response to chemical stimulus is called:</p> <ul style="list-style-type: none">a) chemotaxisb) diapedesisc) digestiond) opsonizatione) tolerance	<p>A</p>



<p>32. The role of the macrophage during an immune response is to:</p> <ul style="list-style-type: none">a. Make antibody.b. Lyse virus-infected target cells.c. Activate cytotoxic T cells.d. Process antigen and present it.	<p>D</p>
<p>33. The following is true for 1ry immune response</p> <ul style="list-style-type: none">a. more rapid appearance of Abb. greater amount.c. IgM class.d. remains detectable for months or years	<p>C</p>
<p>34. The following is true for secondary immune response except:</p> <ul style="list-style-type: none">a. more rapid appearance of antibodyb. greater amount.c. IgG class .d. remains detectable for few days.	<p>C</p>
<p>35. The primary immune response includes the following:</p> <ul style="list-style-type: none">a. there is a lag of several days (10 days) before specific antibody becomes detectable.b. the antibody is IgMc. After a short time, the antibody level declines.a. all of the above	<p>D</p>
<p>36. The secondary immune response include the following:</p> <ul style="list-style-type: none">a. there is more rapid appearance of antibody.b. the antibody is IgGc. remains detectable for months or yearsd. all of the above	<p>D</p>