Question Bank of Theory Immunology

Q1/Fill in the blanks with suitable words.

1.	The mechanical barrier consists of,,
	whereas chemical barrier consists of,,
2.	The valence of an antibody refers to thethat an
	individual antibody molecule can bind. The valence of IgA is
3.	cells are involved in the extracellular killing of the target.
4.	involved in the killing of large parasites (helminths).
5.	secreted by virus-infected cells inhibits viral replication.
6.	such as C-reactive protein (CRP), defensins, mannan-binding lectin,
	Apolipoprotein B, serum amyloid protein, C9, factor B, and fibrinogen.
7.	The main functions of Immunity are,,
	,
8.	It is a component of the innate arm to recognize
	what is foreign by detecting certain carbohydrates or lipids on the surface of
	microorganisms that are different from those in human cells.
9.	A dendritic cell is displayed in three types,,
	,
10.	Five signs of inflammation,

Q2/ Explain by the figure (Answer only one).

- A- A typical immune response to invading microbes?
- B- Phagocytosis phases.

Q3/Only enumerate the following (Answer only two).

- A- Basic properties of antigens.
- B- Count all types of Immunoglobulins.
- C- Cells of Adaptive Immunity.

Q4/What is the difference between inter-chain disulfide and intra-chain disulfide bonds of antibodies?

Q5/Define: 1-Antibody Valence 2-Epitope Explain by example.

Q6/Write classes of Antibodies based on differences in amino acid sequences in the constant region of the heavy chain.

The immunoglobulins can be divided into five different classes, based on differences in the amino acid sequences in the constant region of the heavy chains.

- 1. IgG –Gamma heavy chains
- 2. IgM –Mu heavy chains
- 3. IgA -Alpha heavy chains
- 4. IgD –Delta heavy chains
- 5. IgE –Epsilon heavy chains

Q7/Write basic proprieties of Antigen.

Q8/ Write three main differences between innate immunity and adaptive immunity.

Q9/ How the immune system discriminates between self and non-self-antigen?

Q10/ Write the differences between innate immunity and adaptive immunity.

Q11/ Explain by the figure (Answer only one).

A-A typical immune response to invading microbes?

B- phagocytosis phases.

Q12/ Only enumerate the following (Answer only two).

A-Basic properties of antigens.

B-Count all functions of Immunoglobulins.

C- Cells of Adaptive Immunity.

Q13/ Explain by the figure (Answer only one).

- B- A typical immune response to invading microbes?
- C- Phagocytosis phases.

Q14/Only enumerate the following (Answer only two).

- D- Basic properties of antigens.
- E- Count all types of Immunoglobulins.
- F- Cells of Adaptive Immunity.

Q15/ Define (Five) of the following words:

1. Combined Immunization 2. Secondary immune response 3. Premunition immunity 4. Hyperimmune sera 5. Local Immunity 6. Defensins

Q16/ Mention the specific role of passive immunity.

Q17/What happens when a TLR binds to a microbe?

Q18/ Enumerate Properties of Acquired Immunity

Q19/ Write the differences between the followings:

- 1. Killed and live vaccine
- 2. Immunological memory of the infection and vaccination
- 3. Convalescent sera and Pooled human Y globulin

Q20/ Define (Five) of the following words:

- 1. Herd Immunity 2. Opsonization 3. Fever 4. Defensins 5. Premunition immunity
- 6. Hyperimmune sera

Q21/ Write differences between active and passive immunity.

Q22/ Enumerate the followings:

- 1. General characterized of Passive Immunity.
- 2. Bridges between Innate and Acquired Immunity
- 3. Pattern-recognition receptor (PRR) with their function

Q23/ What is phagocytosis? Which cells are named phagocytes? Draw and mention all phagocytosis steps.

Q24/ Fill in the following blanks:
1. Innate immunity refers to defense mechanisms that come into play
of an antigen (non-self) appearance in the body.
2 refers to antigens entering the body through vaccination with the response of providing -
protection.
3. Artificially passive acquired immunity Antibodies from immune individuals injected into the
body are referred to asandand
4 is the ability of the pathogen to enter the host, multiply and stimulate an
5. Functions of Immunity are,, and Immune surveillance.
6. Lactoperoxidase in milk- has action.
7. Interferon is cytokines that trigger andto interfere with RNA viral
reproduction.
8non-phagocyte large granular lymphocytes, Attack cells that lack "self" cell-surface
receptors.
9. Higher body temperature occurs as a result of certain cytokines called
10. Example of natural active immunity as, while artificial active immunity as
11. The released chemical mediators include vasoactive amines such as, and lipid products
as
Q25/ Enumerate the chemical barrier of the body.

Q26/Write the difference between the followings:

- 1. Active and Passive Naturally Acquired Immunity
- 2. Killed Vaccines and Live Vaccines.

Q27/How does our body defend against invading pathogens? mention external and internal defenses.

Q28/ Define these words (only SIX).

- 1. NK cells
- 2. Phagocytosis
- 3. Chemotaxis
- 4. Pattern-recognition receptor
- 5. Mediators
- 6. Pyrogens
- 7. Defensins
- 8. Interferon

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