

CBSE Class 12 Biology
Important Questions
Chapter 8
Human Health and Disease

2 Marks Questions

1. Where are B-cells and T-cells formed? How do they differ from each other?

Ans.B-cells and T-cells are formed in bone marrow. B-cells produce antibodies but E-cells do not produce antibodies but help B-cells to produce them.

2. Given below are the pathogens and the diseases caused by them. Which out of these pairs is not correct matching pair and why?

- (a) **Wuchereria Filariasis**
- (b) **Microsporum Ringworm**
- (c) **Salmonella Common Cold**
- (d) **Plasmodium Malaria**

Ans.Salmonella : Common cold is not a matching pair.

3. What would happen to the immune system, if thymus gland is removed from the body of a person?

Ans.T-lymphocytes are developed and matured in thymus gland, Immune system will become weak on removal of thymus gland.

4. Lymph nodes are secondary lymphoid orgAns. Describe the role of lymph nodes in our immune response.

Ans.Lymph nodes provide the sites for interaction of lymphocytes with the antigen. When the microorganisms enter the lymph nodes, lymphocytes present there are activated and



cause the immune response.

5. What is the role of histamine in inflammatory response? Name few drugs which reduce the symptoms of allergy.

Ans. Histamine acts as allergy-mediator which cause blood vessels to dilate. It is released by mast cells. Antihistamine steroids and adrenaline quickly reduce the symptoms of allergy.

6. Differentiate between two different types of tumours?

Ans.

BENIGN TUMOUR	MALIGNANT TUMOUR
i) tumour remain confined to place of origin or affected organ	i) tumour invade surrounding tissue & spread throughout the body.
ii) It is harmless	ii) It is harmful
iii) rate of growth of tumour is low	iii) rate of growth of tumour is rapid
iv) causes limited damage	iv) Cause uncontrolled damage.

7. What do you mean withdrawal Symptoms? What are its characteristics?

Ans. Withdrawal symptoms refers to the characteristic unpleasant symptoms by body of a drug addict if regular dose of drug is abruptly discontinued. These include anxiety, shakiness, sweating, restlessness, depression, muscular cramps etc.

8. Differentiate between active & passive immunity?

Ans.

ACTIVE IMMUNITY	PASSIVE IMMUNITY
i) when antibodies are developed by our own cells in response to antigen	i) when antibodies developed in other vertebrates in response to deliberate infection of antigen
ii) It takes time to develop immunity	ii) It is used when the immune response has to be faster
iii) It stays for longer period	iii) It stays for short period

9.Enumerate the two properties of cancer cells that distinguish them from normal cell.

Ans.i) uncontrolled proliferation of cells without any differentiation

ii) Ability of these cells to invade other tissues called metastasis.

10.What are allergens? How do they cause inflammatory response inside human body?

Ans.The substance which causes the hypersensitive reaction of the immune system is called an allergen. dust, pollen grains etc. These allergens are actually weak antigens. First exposure to allergen does not cause allergy but consequent exposure, allergen combines with Ig E on mast cell. That causes cells to burst & release Histamines which cause inflammatory response.

11.What are autoimmune diseases? Give two examples?

Ans.Immunity is based on ability to differentiate foreign organism from self cells. Sometimes immune system may go off the track & turns against self antigen and elicit immunity. Such conditions are called auto – immune diseases eg. Rheumatoid arthritis, Myasthenia gravis.
