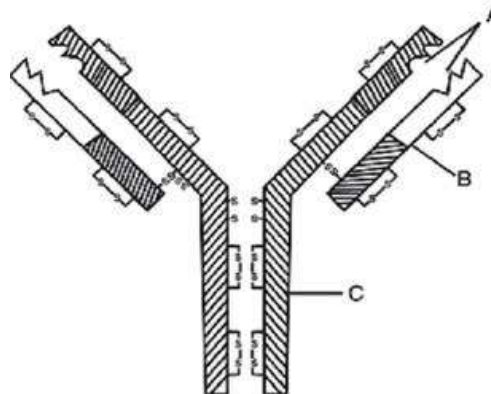


Board – CBSE

Class – 12

Topic – Human Health and Disease

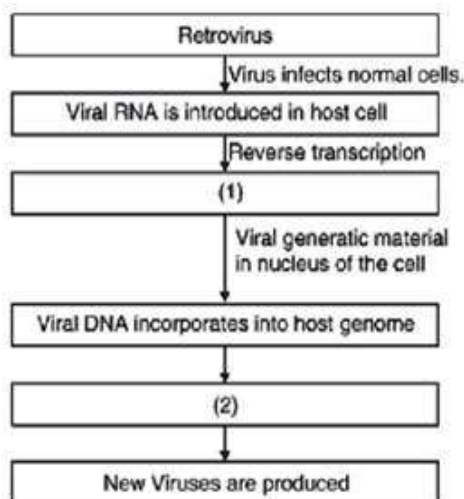
1. Where are B-cells and T-cells formed? How do they differ from each other?
2. Given below are the pathogens and the diseases caused by them. Which out of these pairs is not correct matching pair and why?
 - (a) Wuchereria Filariasis
 - (b) Microsporum Ringworm
 - (c) Salmonella Common Cold
 - (d) Plasmodium Malaria
3. What would happen to the immune system, if thymus gland is removed from the body of a person?
4. Lymph nodes are secondary lymphoid orgAns. Describe the role of lymph nodes in our immune response.
5. What is the role of histamine in inflammatory response? Name few drugs which reduce the symptoms of allergy.
6. Differentiate between two different types of tumours?
7. What do you mean withdrawal Symptoms? What are its characteristics?
8. Differentiate between active & passive immunity?
9. Enumerate the two properties of cancer cells that distinguish them from normal cell.
10. What are allergens? How do they cause inflammatory response inside human body?
11. What are autoimmune diseases? Give two examples?
12. What are Cannabinoids? From which plant Cannabinoids are obtained? Which part of the body is affected by consuming these substances?
13. In the figure, structure of an antibody molecule is shown. Observe it and Give the answer of the following questions.
 - (i) Label the parts A, B and C.
 - (ii) Which cells produce these chemicals?
 - (iii) State the function of these molecules.



14. Mention any three causes of drug abuse. Suggest some measures for the prevention and control of drug abuse.
15. A person shows unwelcome immunogenic reactions while exposed to certain substances.
- (a) Name this condition.
- (b) What common term is given to the substances responsible for this condition?
- (c) Name the cells and the chemical substances released which cause such reactions.
16. Fill in the blanks in the different columns of the table given below.

Name of disease	Causative organism	Symptoms
Pneumonia	Streptococcus	(1)
Typhoid	(2)	High fever, weakness, headache, stomach pain
(3)	Rhinoviruses	Nasal Congestion, and discharge sore throat cough, headache
Ascariasis	Ascaris	(4)
Ringworm	(5)	Dry, Scaly lesions on various body parts, Intense itching, redness
(6)	Entamoeba histolytica	Constipation, cramps, abdominal pain, Stool with excess mucous and blood clots

17. In the given flow diagram, the replication of retrovirus in a host cell is shown. Examine it and answer the following questions
- (a) Why is virus called reterovirus?
- (b) Fill in (1) and (2)
- (c) Can infected cell survive while viruses are being replicated and released by host cell?



18. What is innate immunity? List the four types of barriers which protect the body from the entry of the foreign agents.
19. How does humoral immune system works when our body is infected?
20. It was diagnosed by a specialist that the immune System of the body of a patient has been suppressed. Describe the infection & the mechanism of its proliferation in the body.
21. What are carcinogens? What are the different types of carcinogens? Also mention the different methods of treatment of cancer?
22. Describe the ill – effects of drug abuse in males & females. Also mention the preventive measures that is to be taken to reduce such effects
23. What is vaccination? What type of immunity is provided by vaccination?
24. (i) Differentiate between communicable & non – communicable diseases?
(ii) Name the body part & the host in which following events takes place in life cycle of plasmodium.
 - (a) fertilization
 - (b) Development of Gametophyte :-
 - (c) Release of sporozoites :-
 - (d) Asexual Reproduction.
25. Answer the following with respect to Caner.
 - (a) How does a cancerous cell differ from a normal cell?
 - (b) Benign tumor is less dangerous than malignant tumor. Why
 - (c) Describe causes of cancer.
 - (d) mention two methods of treatment of the disease.
26. The immune system of a person is supressed. He was found positive for a pathogen in the diagnostic test ELISA.
 - (a) Name the disease, the patient is suffering from.

- (b) Which pathogen is identified by ELISA test?
 - (c) Which cells of the body are attacked by the pathogen?
 - (d) Suggest preventive measure of the infection.
- 27.** Discuss the role of lymphoid organs in the immune response. Explain the different types of lymphoid organs giving two examples of each type in humans.
- 28.** With the help of a well – labelled diagram, Describe the life cycle of malarial parasite.
- 29.** What do you mean by “Out – breeding”. What are the different methods employed for out breeding?
- 30.** What is somatic hybridization – Explain the steps involved in the production of somatic hybrids?