

Class: 12
Subject: Biology
Topic: Human Health and Disease
No. of Questions: 25

- Q1. What are the various routes by which transmission of human immunodeficiency virus takes place?
- Q2. Explain what is meant by metastasis.
- Q3. A boy of 10 years had chicken pox. He is not expected to have the same disease for the rest of his life. Mention how it is possible.
- Q4. List the specific symptoms of typhoid. Name its causative agent.
- Q5. Name one plant and the addictive drug extracted from its latex. How does this drug affect the human body?
- Q6. Why does a doctor administer tetanus antitoxin and not a tetanus vaccine to a child injured in a roadside accident with a bleeding wound? Explain.
- Q7. The immune system of a person is suppressed. In the Elisa test, he was found positive to a pathogen.
(a) Name the disease the patient is suffering from.
(b) What is the causative organism?
(c) Which cells of body are affected by the pathogen?
- Q8. What would happen to immune system if the thymus gland is removed from the body of a person?
- Q9. Many microbial pathogens enter the gut of humans along with food. What are the preventive barriers to protect the body from such pathogens? What type of immunity do you observe in this case?

- Q10. What are interferons? How do interferons check infection of new cell?
- Q11. A student of a school trip started sneezing and wheezing soon after reaching the hill station for no explained reasons. But, on return to the plains, the symptoms disappeared. What is such a response called? How does the body produce it?
- Q12. A young boy when brought a pet dog home started to complain of watery eyes and running nose. The symptoms disappeared when the body was kept away from the pet.
- Name the type of antibody and the chemicals responsible for such a response in the boy.
 - Mention the name of any one drug that could be given to the body for immediate relief such a response.
- Q13. How do the tranquillizers differ from the sedatives?
- Q14. Answer the following question:
- How are the cancer cells different from normal cells?
 - Pick out correct carcinogens out of the following:
Asbestos, infra red rays, arsenic, polythene, casein, caffeine, tobacco smoke, Gamma rays.
 - Write down three methods (write full forms wherever required) to detect cancer of internal organs.
- Q15. In which parts of the body of the hosts do the following events in the life cycle of Plasmodium take place? Name both the body part and the host.
- Fertilization
 - Development of gametocytes
 - Release of sporozoites
- Q16. A thalasemic child needed repeated blood transfusions, got infected by HIV.
- Use a rough diagrammatic sketch and arrows to show how the virus increased in number.
 - Why did the increased number of HIV viruses deteriorate the child's immunity?
 - Which diagnostic test showed that the infective virus was HIV?

- Q17. (a) In which disease is there an uncontrolled division of cells resulting in the formation of tumours? How is this disease detected?
(b) How do interferons help in controlling the disease?
- Q18. (i) Name the term used when the immune system at times reject certain tissues of a person's own body as 'nonself'.
(i) Name any two diseases that occur in human beings.
- Q19. List the causative organism and carrier of the following disease. (i) Dengue fever (ii) Chikungunya
- Q20. Janaki's mother went to see her maid who recently gave birth to a baby. Janaki's mother gifted maid a set of clothes for the new born and advised her to get the child vaccinated timely but maid replied that she was very poor and could not afford the cost of vaccines.
Read the above passage and answer the following questions:
(i) What are vaccines?
(ii) Name two vaccines given to new born babies.
(iii) How did Janaki's mother help the maid to get her new born vaccinated free of cost?
- Q21. Sarcoma is cancer of (CBSE)
(a) Epithelial tissue
(b) Mesodermal tissue
(c) Blood
(d) Endodermal tissues
- Q22. One of the following is used for treatment of thyroid cancer (CBSE)
(a) U238
(b) Ra-224
(c) C-14
(d) I-131

- Q23. Which of the following is fourth dimension of health?
- (a) physical
 - (b) mental
 - (c) spiritual
 - (d) social
- Q24. Deficiency of vitamin C/Ascorbic acid causes (CBSE, DPMT, JIPMER, MP-PMT)
- (a) Rickets
 - (b) Beri-beri
 - (c) Scurvy
 - (d) Night blindness
- Q25. AZT is used in treatment of (BHU)
- (a) Malaria
 - (b) AIDS
 - (c) T.B.
 - (d) Kala-azar

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