

**CBSE Test Paper 03**  
**Ch-8 Human Health and Disease**

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1. Which of the following factor do not motivate youngsters towards drug and alcohol use?
  - a. Need for adventure and excitement
  - b. Curiosity
  - c. Experimentation
  - d. Extra money
2. Which one of the following is a matching pair of a drug and its category?
  - a. Benzodiazepines – pain killer
  - b. Amphetamines – stimulant
  - c. Heroin – psychotropic
  - d. Lysergic acid dimethyl amide – narcotic
3. Protein secreted by virus infected cells is called
  - a. Mucilage
  - b. Prothallimic
  - c. Carcinogens
  - d. Interferons
4. AZT is used in the treatment of
  - a. AIDS
  - b. Malaria
  - c. Blood cancer
  - d. Kala azar
5. A metastatic cancerous tissue is termed ‘sarcoma’ if the disorder is in
  - a. Circulatory system
  - b. Fibroblasts
  - c. Epithelial cells
  - d. immune system
6. In which way have microbes played a major role in controlling diseases caused by harmful bacteria?
7. How do virus-infected cells provide innate immunity to healthy cells?

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8. How does the moderate and high dosage of cocaine affect the human body?
  9. Name the respective forms in which the malarial parasite gains entry into
    - (i) Human body
    - (ii) Body of female anopheles
  10. Name a drug used (i) as an effective sedative and pain killer (ii) for helping patients to cope with mental illness like depression, but often misused.
  11. Given below are pairs of diseases and causative organisms. Which out of these is not a matching pair and why?  
Filariasis : Wucheraria  
Ringworm : Ascaris  
AIDS : Human Immuno Virus  
Malaria : Plasmodium
  12. What is required to maintain good health?
  13. Differentiate between vaccination and immunization. Describe the two types of vaccines with suitable examples?
  14. What are the various public health measures, which you would suggest as safeguard against infectious diseases?
  15. In which disease is there an uncontrolled division of cells resulting in formation of tumours? How is this disease detected?

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**Answer**

1. d. Extra money, **Explanation:** Curiosity, need for adventure and excitement and experimentation constitute common causes, which motivate youngsters towards drug and alcohol use.
2. b. Amphetamines – stimulant, **Explanation:** Amphetamines is kind of drug which is used as stimulant. It is a strong CNS stimulant that is used in the treatment of ADHD. Lysergic acid dimethyl amide is not a narcotic and heroin is not a psychotropic agent.
3. d. Interferons, **Explanation:** Interferons (IFNs) are a group of signaling proteins made and released by host and infected cells in response to the presence of several pathogens, such as viruses, bacteria, parasites, and also tumor cells. which protect non- cancerous cells from infection.
4. a. AIDS, **Explanation:** AZT, in full azidothymidine, also called zidovudine, drug used to delay development of AIDS (acquired immunodeficiency syndrome) in patients infected with HIV (human immunodeficiency virus).  
AZT belongs to a group of drugs known as nucleoside reverse transcriptase inhibitors (NRTIs). Although, this drug does not control the AIDS completely.
5. b. Fibroblasts, **Explanation:** A metastatic cancerous tissue is called sarcoma if the disorder is in fibroblast. The property of cancerous cells to reach from one part of the body to other through blood is called metastasis.
6. Microbes are the source of antibiotics which have greatly improved our capacity to treat deadly diseases
7. Virus infected cells secrete interferon which protect the healthy cells from viral infection.
8. Its moderate dose produces a sense of euphoria and increased energy while high dose causes hallucination.

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9.

- i. Sporozoite
- ii. Gametocyte

10.

- i. Morphine
- ii. Tranquillizers

11. Ringworm : Ascaris

Ringworm of the skin (tinea corporis) is most commonly caused by the fungus *Trichophyton rubrum*, which spreads from one person to another.

12. A combination of balanced diet, personal hygiene and regular exercise are very important to maintain good health. Yoga is also another method through which health of both mind and body can be maintained. Hygiene is very important for good health.

13. **Vaccination** is the phenomenon of injection of killed or inactivated microbe to trigger the immune system to produce antibodies against a particular disease. Vaccination is the process of administering vaccines. Diseases can be prevented by vaccination. During vaccination inactivated or weakened microbes called as vaccines are introduced into the body. They trigger the production of antibodies. When disease-carrying microbes enter our body, self-protecting proteins called antibodies fight against the invader.

**Immunisation** is the protection of individuals from communicable diseases by administration of a suspension of dead micro-organisms. This is the stimulation of immune system in the body to produce memory cells which further can detect disease causing pathogens and immediately eliminate them before causing the disease.

Generally vaccines are of two types:

**(a) Attenuated Vaccines:** They are prepared from live organisms (generally pathogen is made weak to make it non virulent).

**Examples :** BCG and influenza vaccine.

**(b) Killed Vaccines:** They are prepared by killing the pathogenic organisms by heat

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or UV rays.

**Examples:** Polio and Rabies vaccines.

14. **(i) Education:** People should be educated about the infectious diseases so that they can protect themselves.
- (ii) Vaccination :** People should be vaccinated against infectious diseases.
- (iii) Sanitation:** Personal hygiene and public hygiene help in preventing the spread of various infectious diseases.
- (iv) Eradication of Vectors:** The destruction of the vectors and their breeding places help in preventing the spread of diseases. Avoiding stagnation of water in residential areas.
15. The disease is cancer and it is detected by:
- Biopsy and histopathological studies of the tissue
  - Radiography
  - Computed tomography (CT scan)
  - Magnetic resonance Imaging (MRI)
- (ii) The biological response modifiers like  $\alpha$ -interferon are given to the patients which activates their immune system and helps in destroying the tumor.