

Human Health and Disease — Assignment 1

Class 12 Biology · Topic-wise question bank covering every concept of the chapter · Narayan Gurukul Academy

Instructions: (1) Attempt all questions. This worksheet walks through every concept of the chapter, topic by topic.
(2) The interactive MCQ version of these questions (with instant answer reveal) is available on the notes page.
(3) Universal values: $g = 10 \text{ m/s}^2$ unless stated. Give answers with correct SI units.

Common Diseases and Their Pathogens

MCQ Questions (choose the correct option)

1. Malaria is caused by
 - (A) Plasmodium
 - (B) Wuchereria
 - (C) Ascaris
 - (D) Entamoeba
2. Typhoid is caused by
 - (A) Salmonella typhi
 - (B) Plasmodium
 - (C) HIV
 - (D) Ascaris
3. Filariasis is caused by
 - (A) Wuchereria
 - (B) Plasmodium
 - (C) Entamoeba
 - (D) Ascaris
4. Ringworm is caused by
 - (A) fungi
 - (B) bacteria
 - (C) virus
 - (D) protozoa

1 Mark Questions

1. Name the pathogen of malaria.
2. Name the pathogen of typhoid.
3. Name one fungal disease.

2 Mark Questions

1. Name the pathogen and vector of filariasis.
2. Distinguish between a pathogen and a vector.

3 Mark Questions

1. List the common diseases and their pathogens.
2. Describe the transmission of malaria.

Immunity — Types and Mechanisms

MCQ Questions (choose the correct option)

1. Innate immunity is
 - (A) non-specific
 - (B) specific
 - (C) acquired
 - (D) passive
2. B cells mature in the
 - (A) bone marrow
 - (B) thymus
 - (C) spleen
 - (D) liver
3. T cells mature in the
 - (A) thymus
 - (B) bone marrow
 - (C) spleen
 - (D) liver
4. The cells that produce antibodies are
 - (A) B cells
 - (B) T cells
 - (C) macrophages
 - (D) platelets

1 Mark Questions

1. What is immunity?
2. What is innate immunity?
3. Where do T cells mature?

2 Mark Questions

1. Differentiate between innate and acquired immunity.
2. Name the two types of acquired immunity.

3 Mark Questions

1. Describe the barriers of innate immunity.
2. Explain the types of acquired immunity.

Vaccination, Allergies and Autoimmunity

MCQ Questions (choose the correct option)

1. Vaccination produces
 - (A) active immunity
 - (B) passive immunity
 - (C) allergy
 - (D) autoimmunity
2. The antibody involved in allergies is

- (A) IgE
 - (B) IgG
 - (C) IgM
 - (D) IgA
3. Autoimmunity is immunity against
- (A) self
 - (B) foreign antigen
 - (C) pathogens
 - (D) allergens
4. The substance that triggers an allergy is the
- (A) allergen
 - (B) antibody
 - (C) antigen
 - (D) vaccine

1 Mark Questions

1. What is vaccination?
2. What is an allergy?
3. Give one example of autoimmunity.

2 Mark Questions

1. How does vaccination work?
2. What are the symptoms of an allergy?

3 Mark Questions

1. Explain the process of vaccination.
2. Describe allergies and autoimmunity with examples.

Cancer — Causes and Detection

MCQ Questions (choose the correct option)

1. Cancer is caused by
 - (A) uncontrolled cell division
 - (B) controlled growth
 - (C) infection only
 - (D) vitamin deficiency
2. Benign tumours are
 - (A) confined
 - (B) spreading
 - (C) metastatic
 - (D) malignant
3. The spread of cancer cells is called
 - (A) metastasis
 - (B) mitosis
 - (C) meiosis

- (D) apoptosis
4. Cancer-causing agents are called
- (A) carcinogens
 - (B) oncogenes
 - (C) antibodies
 - (D) antigens

1 Mark Questions

1. What is cancer?
2. What is metastasis?
3. Name one carcinogen.

2 Mark Questions

1. Differentiate between benign and malignant tumours.
2. How is cancer detected?

3 Mark Questions

1. Describe the causes of cancer.
2. Explain the detection and treatment of cancer.

AIDS — HIV and Prevention

MCQ Questions (choose the correct option)

1. AIDS is caused by
 - (A) HIV
 - (B) bacteria
 - (C) fungus
 - (D) protozoa
2. HIV destroys
 - (A) helper T cells
 - (B) B cells
 - (C) red blood cells
 - (D) platelets
3. AIDS is diagnosed by
 - (A) ELISA
 - (B) X-ray
 - (C) MRI
 - (D) biopsy
4. HIV is transmitted by
 - (A) unsafe sex
 - (B) air
 - (C) water
 - (D) food

1 Mark Questions

1. What is AIDS?
2. What does HIV stand for?
3. How is AIDS diagnosed?

2 Mark Questions

1. How is AIDS transmitted?
2. What is the role of reverse transcriptase in HIV?

3 Mark Questions

1. Describe the replication of HIV in the human body.
2. Explain AIDS and its prevention.

Drugs and Alcohol Abuse

MCQ Questions (choose the correct option)

1. Drug abuse affects the
 - (A) nervous system
 - (B) skeletal system
 - (C) digestive system
 - (D) respiratory system
2. Drugs taken to treat a disease are called
 - (A) medicines
 - (B) carcinogens
 - (C) allergens
 - (D) vaccines
3. The misuse of drugs causes
 - (A) addiction
 - (B) immunity
 - (C) allergy
 - (D) metastasis
4. Drug abuse can be prevented by
 - (A) awareness
 - (B) increasing intake
 - (C) self-medication
 - (D) isolation

1 Mark Questions

1. What is drug abuse?
2. Name one effect of alcohol abuse.
3. Name one measure to prevent drug abuse.

2 Mark Questions

1. Mention two effects of drug abuse on the body.
2. State two measures for the prevention of drug abuse.

3 Mark Questions

1. Describe the effects of drug and alcohol abuse.
2. Mention the measures for the prevention of drug abuse.