

Chapter – 7 | Human Health and Disease**QUIZ
PART-10**

1. Cancer is caused due to:

- A. Controlled cell division
- B. Uncontrolled proliferation of cells
- C. Decrease in cell growth
- D. Normal differentiation of cells (B)

Explanation : Cancer occurs due to uncontrolled proliferation of cells without proper differentiation.

2. Cancer-causing agents are called:

- A. Antibodies
- B. Carcinogens
- C. Hormones
- D. Enzymes (B)

Explanation : Agents that transform normal cells into cancerous cells are known as carcinogens.

3. Cancer cells differ from normal cells because they:

- A. Have normal growth regulation
- B. Stop dividing completely
- C. Lose contact inhibition
- D. Have a fixed lifespan (C)

Explanation : Cancer cells lose contact inhibition and do not respond to normal growth control mechanisms.

4. A tumor that remains confined to its place of origin is:

- A. Malignant tumor
- B. Benign tumor
- C. Metastatic tumor
- D. Neoplastic tumor (B)

Explanation : Benign tumors are usually confined to their original location and do not spread.

5. The spread of cancer cells from one part of the body to distant sites is called:

- A. Differentiation
- B. Metastasis
- C. Mutation
- D. Regeneration (B)

Explanation : Metastasis occurs when tumor cells travel through blood and form new tumors at distant sites.

6. Which type of cancer develops from epithelial cells?

- A. Sarcoma
- B. Leukemia
- C. Carcinoma
- D. Lymphoma (C)

Explanation : Carcinoma arises from epithelial cells and accounts for about 80% of cancers.

7. Leukemia is characterized by:

- A. Decreased RBC production
- B. Abnormal increase in WBC count
- C. Bone fracture
- D. Skin infection (B)

Explanation : Leukemia involves abnormal production and increase of white blood cells in bone marrow.

8. Which of the following is a physical carcinogen?

- A. Nicotine
- B. Tobacco
- C. X-rays
- D. Virus (C)

Explanation : Ionizing radiations such as X-rays and gamma rays are physical carcinogens.

9. Vincristine and vinblastine are useful in the treatment of:

- A. AIDS
- B. Leukemia
- C. Diabetes
- D. Tuberculosis (B)

Explanation : Vincristine and vinblastine are anticancer drugs helpful in treating leukemia.

10. MRI detects pathological and physiological changes using:

- A. Sound waves only
- B. Strong magnetic fields and non-ionizing radiation
- C. Gamma rays only
- D. Chemical dyes (B)

Explanation : MRI uses strong magnetic fields and non-ionizing radiation to detect changes in tissues.