

**Class – IX**

**BIOLOGY TEST- CELL & TISSUE**

**MM: – 30**

**Section -A [Objective Type Questions]**

**1 X 10 = 10**

1. The outer membrane found in an animal cell is
  - (a) cell wall
  - (b) cell membrane
  - (c) nuclear membrane
  - (d) cytoplasm
  
2. The name suicide bag has been given to
  - (a) centrioles
  - (b) ribosome
  - (c) mitochondrion
  - (d) lysosome
  
3. Which of the following is the main difference between onion peel cells and human cheek cells?
  - (a) Presence of mitochondria in onion peel cells only
  - (b) Presence of cell wall in onion peel cells only
  - (c) Absence of plasma membrane in cheek cells
  - (d) Absence of endoplasmic reticulum in cheek cells
  
4. Cell wall is
  - (a) semipermeable
  - (b) permeable
  - (c) differentially permeable
  - (d) none of these
  
5. Gaseous exchange in plants takes place through
  - (a) epidermal cells
  - (b) stomata
  - (c) stem
  - (d) vascular tissue
  
6. Increase in the length of the plant is caused by
  - (a) cork cambium
  - (b) vascular cambium
  - (c) apical meristem
  - (d) permanent tissue
  
7. Nucleus is not present in
  - (a) companion cell



- (b) mature sieve tube
  - (c) phloem parenchyma
  - (d) collenchyma
8. Tissue is defined as
- (a) group of similar cells having a common function
  - (b) different types of cells performing the same functions
  - (c) different types of cells performing different functions
  - (d) organised group of cells performing many functions
9. Ciliated epithelium occurs in the
- (a) kidneys and trachea
  - (b) trachea and lungs
  - (c) trachea and liver
  - (d) trachea and uterus
10. Muscles involved in the movement of the arm are
- (a) striated
  - (b) nonstriated
  - (c) cardiac
  - (d) smooth

**Section – B (2 Marks Each)**

11. WHAT ARE GRANA ? WHAT ROLE DO THEY PLAY ?
12. MENTION 2 PECULIARITIES OF CARDIAC MUSCLES.

**Section – C (3 Marks Each)**

13. DIFFERENTIATE BW MITOSIS & MEIOSIS.
14. DIFFERENTIATE BW-
- a. BLOOD & LYMPH.
  - b. TENDON & LIGAMENT.

**Section – D (5 Marks Each)**

15. a. DESCRIBE THE DIFFERENT PARTS OF A NEURON WITH SUITABLE DIAGRAM.
- b. DRAW WELL LABELLED DIAGRAM OF MITOCHONDRIA & WRITE ITS FUNCTION.

**CASE BASED STUDY**



Q16. Tissues are groups of cells that are similar in structure and function, working together to perform specific tasks in the body. There are four main types of tissues in animals: epithelial tissue, connective tissue, muscular tissue, and nervous tissue. Epithelial tissue covers the surfaces of the body, lines the internal organs, and forms glands. It provides protection, secretion, absorption, and excretion. Connective tissue provides support and connects different body parts. It includes bone, cartilage, blood, and adipose tissue. Muscular tissue is responsible for body movements and can be categorized into three types: skeletal, smooth, and cardiac muscle. Nervous tissue consists of specialized cells called neurons that transmit and process information in the form of electrical signals. Understanding the different types and functions of tissues is essential to comprehend the organization and functioning of complex multicellular organisms.

**[i] What are tissues?**

- a) Groups of organs in the body
- b) Groups of cells with similar structure and function
- c) Layers of skin
- d) Different types of body systems

**[ii] How many main types of tissues are there in animals?**

- a) Two
- b) Three
- c) Four
- d) Five

**[iii] Which type of tissue covers the surfaces of the body and forms glands?**

- a) Epithelial tissue
- b) Connective tissue
- c) Muscular tissue
- d) Nervous tissue

**[iv] What is the function of connective tissue?**

- a) Provides support and connects different body parts
- b) Covers the surfaces of the body
- c) Responsible for body movements
- d) Transmits and processes information

**[v] What is the function of nervous tissue?**

- a) Provides protection, secretion, absorption, and excretion



- b) Transmits and processes information in the form of electrical signals
- c) Responsible for body movements
- d) Supports and connects different body parts

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