

## QUESTIONS

### VERY SHORT ANSWER TYPE QUESTIONS

1. Name the largest cell of living world ?
2. Who gave the fluid mosaic model of plasma membrane ?
3. Which cell organelle is called as the 'Head quarter of cell' ?
4. Which cell organelle is called as 'Power house of cell' ?
5. Which cell organelle contains enzymes for ATP production ?
6. In mitochondria, which portion contains specific proteins ?
7. Which cell organelle is called as 'Digestive bag' ?
8. Which organelle controls osmotic pressure in a cell ?

### SHORT ANSWER TYPE QUESTIONS

1. What is the composition of protoplasm ?
2. Define cell ?
3. What is the difference between diffusion and osmosis ?
4. Why plasma membrane is called as selectively permeable membrane ?
5. Define Cristae ?
6. State any two function of Golgi body ?
7. Name various type of plastids present in a plant cell ?
8. State the main function of lysosome ?
9. Which cell organelle is known as powerhouse of cell and why ?
10. What is the function of SER ?

### LONG ANSWER TYPE QUESTIONS

1. Draw a neat and labelled diagram of mitochondria.
2. Differentiate between plant and animal cell with suitable figures.
3. Write a short note on Nucleus.
4. Explain the effect of concentration of solution on the cell ?
5. Who proposed cell theory. What are its postulates ?
6. Draw a neat labelled diagram of plant cell ?
7. How does unicellular organism differ from Multicellular organism ?
8. What are plastids? Explain its structure and types ?
9. What are the functions of vacuoles ?
10. Expand the following : ATP, DNA, RNA along with its function.

### OBJECTIVE TYPE QUESTIONS

#### Fill in the Blanks :

1. .... and ..... proposed the cell theory.
2. Nucleus in the cell is discovered by .....
3. Mitochondria are found in ..... cells
4. A ..... can be made into crystal. (bacterium, virus, amoeba)
5. The main constituent of cell-wall in plant is .....
6. .... organelle is the power house of the cells.
7. Chromosomes are made up of nucleic acid and .....

**MCQ :**

1. **Which of the following is an example of a single cell that does not function as a full fledged as a full fledged organism ?**  
 (a) White blood cells (WBC) (b) Amoeba  
 (c) WBC and Amoeba (d) Paramecium
2. **Who discovered the first living cell ?**  
 (a) Robert Hooke (b) Leeuwenhoek  
 (c) Purkinje (d) Robert Brown
3. **Who used the word 'protoplasm first time for living cells ?**  
 (a) Robert Hooke (b) Leeuwenhoek  
 (c) WBC and Amoeba (d) Robert Brown
4. **Which organelle is considered as a suicide bag ?**  
 (a) Centrosome (b) Mesosomes  
 (c) Lysosomes (d) Chromosome
5. **Which of the following organelle is present in onion cells but not in human cheek cells ?**  
 (a) Cell wall (b) cytoplasm  
 (c) nucleus (d) plasma membrane
6. **Which cell organelle plays a crucial role in detoxifying many poisons and drugs ?**  
 (a) Golgi Apparatus (b) Lysosomes  
 (c) Smooth Endoplasmic Reticulum (d) Vacuoles
7. **Function of centriole is**  
 (a) formation of spindle fibre (b) nucleolus formation  
 (c) cell wall formation (d) cell division initiation
8. **viruses are**  
 (a) Uni cellular micro-organisms (b) Bi-Cellular micro-organisms  
 (c) Multi-cellular micro-organisms (d) Non-cellular micro-organisms
9. **Which of the following often distinguishes plant cells from animal cells ?**  
 (a) centrioles (b) nucleus  
 (c) Chromatin (d) rough ER

**Match the following :**

**C1**

- A. Smooth Endoplasmic reticula
- B. Nucleoid
- C. Food Vacuoles
- E. Mitochondria
- D. Pasties

**C2**

1. Amoeba
2. Nucleus
3. Bacteria
4. Detoxification
5. Leucoplast
6. Suicidal Bags.

- **Assertion :** Cell is the fundamental and structural unit of life.  
**Reason :** Cell performs all the life processes and forms the structure of the living beings.

**True and False :**

1. Plant cell will plasmolysed when placed in a hypotonic solution.
2. Animal cell will shrink in a hypotonic solution.
3. Mitochondria is known as a suicidal bag of all.
4. Cell wall is present in plant cell.