

Science Test Grade VIII

Cell- Structure and Function

Time: 1:30 hr

M.M- 40

Q1. Choose the correct option:

$\frac{1}{2} \times 5 = 2\frac{1}{2}$

- a. The lowest level of organization in an organism is called _____.
- i. Cell ii. Organ iii. Tissue iv. Organ system
- b. Skin cells cover a large area, and are, therefore:
- i. Elongated ii. Thin and long iii. Flat and broad iv. Circular
- c. The outer covering of the cell is _____
- i. Nuclear membrane iii. Endoplasmic reticulum
- ii. Cell membrane iv. Chloroplast
- d. Which of these is present only in animal cells?
- i. Cell wall ii. Centrosome iii. Ribosomes iv. Cytoplasm
- e. Which of the following is responsible for growth?
- i. Healing wounds ii. Cell division iii. Cell maturity iv. Difference in shape

2. State True or False:

$\frac{1}{2} \times 5 = 2\frac{1}{2}$

- a. A multicellular organism is made up of many cells
- b. Cells exist in different shapes.
- c. Cell wall is present in the animal cell.
- d. Chloroplasts give colour to flowers and fruits.
- e. Chromosome is present plant and animal cells.

3. Fill in the blanks:

$1 \times 5 = 5$

- a. Every cell is bounded by _____.
- b. The genes are present in _____.
- c. Living part of the cell is called as _____?
- d. _____ are called powerhouses of the cell.
- e. The nucleus contains a semi-solid substance called _____.

4. Write one word for the following:

$1 \times 4 = 4$

- a. Organism whose body consist of single cell
- b. Cells that lack a well-defined nucleus
- c. The primary sites for protein synthesis

d. Suicidal bag of the cell

5. match the following:

$\frac{1}{2} \times 4 = 2$

Column A	Column B
Chromosome	plant
Chloroplast	Red blood cells
Cellulose	gene
Smallest cell (living)	cell wall

6. Where are chromosomes found in a cell? State their functions. 2
7. What is the difference between unicellular and multicellular organisms? Give their examples. 2
8. How is a cell wall different from plasma membrane? 1
9. What is the name of the chemical which is used to stain human cheek cell? 1
10. Define the cytoplasm? 1
11. What are the different functions performed by cell membrane? 1
12. Write the functions of Mitochondria, Golgi body and Ribosomes. 3
13. What are genes? How are they important to organism? What is its function? 3
14. Differentiate between plant cell and animal cell. 3
15. Why is plasma membrane called selectively permeable membrane? 2
16. What is the name of the organelle that can be called as kitchen of the cell? Explain why it can be called so? 3
17. Draw a labelled diagram of an animal cell. 2