



## SCIENCE

### CH:8- CELL-STRUCTURE AND FUNCTIONS

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: VIII Sec: \_\_\_\_

#### I Multiple Choice Questions

- Which one of the following term is not a part of the nucleus?  
(a) ribosome (c) chromosome  
(b) nucleolus (d) gene
- A suitable term for the various components of cells is  
(a) tissue (c) chromosomes  
(b) cell organelles (d) genes
- The jelly-like fluid substance present in cells is called  
(a) protoplasm (c) chloroplast  
(b) chromosome (d) cytoplasm
- Read the following pairs of examples of organisms:  
(a) moss and sponge (c) bacteria and blue-green alga  
(b) yeast and Amoeba (d) penicillium and Spirogyra  
The pair that belongs to the group prokaryotes is \_\_\_\_\_
- Green colour of leaves is due to presence of the pigment \_\_\_\_\_  
(a) chlorophyll (c) mitochondria  
(b) ribosomes (d) chloroplast
- The unit of measurement used for expressing dimension (size) of cells is:  
(a) centimeter (c) micrometer  
(b) millimeter (d) metre
- Paheli accidentally placed her hand over a flame and immediately pulled it back. She felt the sensation of heat and reacted due to the action of  
(a) blood cells (c) nerve cells  
(b) skin surface (d) nucleus of cells
- Of the following parts of a cell listed below, name the part that is common to plant cell, animal cell and a bacterial cell.  
(a) chloroplast (c) cell membrane  
(b) cell wall (d) nucleus
- The thread-like structures present in the nucleus are  
(a) nucleolus (c) genes  
(b) chromosomes (d) ribosomes
- Which of the following feature will help you in distinguishing a plant cell from an animal cell?  
(a) cell wall (c) mitochondria  
(b) cell membrane (d) nucleus

**Answer the following**



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11. Name the cell organelle and pigment that is responsible for providing green colour to the leaves.
12. What are the functions of cell wall in plant cells?
13. Cells consist of many organelles, yet we do not call any of these organelles as structural and functional unit of living organisms. Explain.
14. The size of the cells of an organism has no relation with the size of its body. Do you agree? Give reason for your answer.
15. A) What are functions of pseudopodia?  
B) What is meant by 'gene'?
16. a) Why the plant cells are more rigid in shape than animal cells?  
b) Name two cells which continuously change their shape.
17. List the different functions performed by cell membrane.