



INDIAN SCHOOL AL BURAIMI  
BIOLOGY WORKSHEET

STD : IX  
NAME: .....

DATE : .....  
WORKSHEET 2

Lesson 5. The Fundamental Unit of Life

Answer the following questions: -

1. Why is the nucleus so significant? (At least three points)
3. Differentiate between plant cells and animal cells.
4. Why is endocytosis seen only in animal cells?
5. What is a nucleoid?
6. A cell placed in a solution swells up. What kind of solution is it? Why does it happen?
7. Why does the skin of your finger shrink when you wash clothes for a long time?
8. If cells of onion peel and RBCs are kept separately in a hypertonic solution, what will happen?
  - a) Both the cells will swell up
  - b) RBCs and onion peel cells will behave similarly
  - c) RBCs will burst while the onion cells will resist bursting to some extent
  - d) Both a and c are correct.

Name the following: -

1. Two organelles having their own DNA and ribosomes
2. Organelle in animal liver cells which detoxify poisons
3. Energy currency of the cell
4. Cell organelle that helps in packaging and dispatching materials
5. Cell organelle that produces lysosomes
6. Cleansing organelle of a cell
7. Organelle that makes the digestive enzymes (of lysosomes)
8. Transporting channels of a cell
9. Control house of a cell
10. Smallest cell in the human body in terms of size
11. Longest cell in the human body
12. Any two cells that keep changing shape
13. The cell organelle that manufactures lipids and proteins for making the cell membrane
14. Three functional components of every cell
15. The shrinking of cell contents away from the cell wall
16. The structure that gives extra turgidity to a plant cell

Submission date: .....