



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : The Fundamental  
Unit of Life  
Worksheet

Date : 16-4-2019

Resource Person: Zehra Fatima

Date of Submission: \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Class & Division : IX\_\_

Roll Number : \_\_

S.No.	Questions	Marks
1.	Why is the cell called structural and functional unit of life?	1
2.	Who discovered cells and how?	1
3.	Why plasma membrane is called a selectively permeable membrane?	1
4.	Mention the names of any two cell organelles that contain their own genetic material.	1
5.	Where are proteins synthesized inside the cell?	1
6.	What do you mean by the term diffusion ?	1
7.	Name any two organelles other than Nucleus which has their own Ribosomes.	1
8.	What is osmosis?	1
9.	If the organisation of a cell is destroyed due to some physical or chemical influence, what will happen?	2
10.	How do substances like CO <sub>2</sub> and water move in and out of the cell? Discuss.	2
11.	State the Cell theory.	2
12.	Why are lysosomes known as suicide bags?	2
13.	Define osmosis. Name the two types of osmosis.	2
14.	State the function of the following organelles a)Endoplasmic reticulum b)Golgi apparatus	2
15.	Which organelle is known as the powerhouse of the cell? Why?	2
16.	How does an Amoeba obtain its food?	2

17. What would happen if the plasma membrane ruptures or breaks down? 3
18. Write in detail about the types of endoplasmic reticulum. 3
19. What would happen to the life of a cell if there was no Golgi apparatus?
20. Mention the differences between Prokaryotic and Eukaryotic cell. 3
21. Draw a well labelled diagram of Plant cell and animal cell. 3
22. Differentiate between Plant cell and Animal cell. 3
23. What happens to a cell (plant cell or animal cell) when placed in the following solutions: 3
- i) Hypotonic solution
  - ii) Isotonic solution
  - iii) Hypertonic solution
24. Explain Mitosis and Meiosis with the help of a diagram. 3