



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF BIOLOGY



Subject : Biology

Topic :Cell : The Unit of  
Life

Date of worksheet:20- 4 -2017

Resource Person: Zehra Fatima

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

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

Class & Division :XI B

Roll Number : \_\_\_\_

S.No.	Questions	Marks
1 .	Define the term cell and state who discovered cell.	1
2.	Who was the first to describe a live cell? Give an example of smallest and largest cell.	1
3.	What is cell theory? Name the scientists who are credited as formulators of the cell theory.	1
4.	What do chloroplasts and leucoplasts store?	1
5.	What is the function of cytoskeleton?	1
6.	Name three parts of bacterial flagella.	1
7.	What is the scientific contribution of Christian de Duve?	1
8.	What are nuclear pores? State their function.	1
9.	Name the two subunits of prokaryotic ribosomes	1
10.	Name the site of synthesis of glycoproteins and glycolipids in a cell.	1
11.	State the function of cell wall in bacteria. Differentiate between Gram positive and Gram negative bacteria.	2
12.	Mention two differences between RER and SER.	2
13.	What are 'cis' and 'trans' faces of Golgi apparatus? List the functions of Golgi apparatus	2
14.	Give specific term for the following:	2
	a) Stalked particles on the inner membrane of mitochondria.	
	b) Extensive infoldings to the inner membrane of mitochondria.	
	c) Granules found scattered in the cytoplasm or attached to the outside of the endoplasmic reticulum	

- d) Stacks of closely packed thylakoids.
15. What types of enzymes do lysosomes contain? What is their function? 2
16. Explain the 'Fluid Mosaic Model' with the help of a diagram. 3
17. Differentiate between prokaryotic and Eukaryotic cell. 3
18. a) What are plasmids? State its importance. 3
- b) Give characteristic features of the genetic material of bacteria
19. Differentiate between active and passive transport across the membrane. 3
20. a) Draw the diagram of mitochondria and explain its structure in detail. 5
- b) Why is it called "Powerhouse of the cell"?
21. Describe the structure of chloroplasts with the help of a diagram. 5
22. a) Draw the diagram of different types of chromosomes based on position of centromere. 5
- b) What is perinuclear space?
- c) What does a chromatin contain?