



INDIAN SCHOOL DARSAIT

DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Cell Cycle and
Cell division

Date of worksheet : 2 - 5 -2017

Resource Person: Zehra Fatima

Date of Submission : _____

Name of the Student : _____

Class & Division : XI B

Roll Number : ____

S.No.	Questions	Marks
1 .	State the average cell cycle span of a mammalian cell.	1
2.	Which division is referred as equational division and why?	1
3.	Define the term Interphase. Mention the three phases of Interphase.	1
4.	What is G ₀ phase of cell cycle?	1
5.	What is Interkinesis?	1
6.	Which stage of Meiosis shows the formation of synaptonemal complex .	1
7.	Differentiate between karyokinesis and cytokinesis.	1
8.	What are kinetochores?	1
9.	Where does mitosis take place in plants and animals?	1
10.	Can there be mitosis without DNA replication in S phase?	1
11.	What is Chiasmata? State its significance	2
12.	Differentiate between cytokinesis of plant and animal cell.	2
13.	Explain the events taking place during S phase of Interphase?	2
14.	Distinguish between Metaphase of Mitosis and metaphase I of Meiosis.	2
15.	Give terms for the following:	2
	a. Phase in cell cycle where DNA is synthesized.	
	b. The period between 2 successive mitotic divisions.	
	c. Division of Nuclear material.	
	d. Cell division in which chromosome number is halved.	
16.	Write differences between Anaphase of mitosis and Anaphase I of meiosis	2
17.	List the significance of mitosis.	3

18. Differentiate between Mitosis and Meiosis 3
19. Mention the significance of meiosis. 3
20. Describe the following: 5
 - a. Bivalent
 - b. Synapsis
21. What is cell cycle ? Explain the events occurring in this cycle. 5