



**INDIAN SCHOOL DARSAIT**  
**DEPARTMENT OF BIOLOGY**



Subject : BIOLOGY	Topic: CHAPTER10: CELL CYCLE AND CELL DIVISION	Date: 07-05-2018
Resource Person: Mrs. S. Subhaja Nandakumar		Roll Number : __
Name of the Student : _____		Class : XI Div. __

**ANSWER THE FOLLOWING**

- 1) What are kinetochores? 1
- 2) Name the term used for the stage between two meiotic divisions. 1
- 3) Where does mitosis take place in plants and animals? 1
- 4) What is G<sub>0</sub> phase of cell cycle ? 1
- 5) Name the stage of meiosis during which synaptonemal complex is formed. 1
- 6) Why is mitosis called equational division? 1
- 7) Differentiate between chromatin and chromatid. 2
- 8) What will be the DNA content of a cell at G<sub>1</sub> after S and G<sub>2</sub> if the content after M phase is 2C. 2
- 9) Distinguish between metaphase of mitosis and metaphase-I of meiosis. 2
- 10) Give the terms for the following : 2
  - (a) The period between 2 successive mitotic divisions.
  - (b) Cell division in which chromosome number is halved.
  - (c) Phase in cell cycle where DNA is synthesised.
  - (d) Division of nuclear material.
- 11) Differentiate between cytokinesis of plant and animal cell. 2
- 12) What is chiasmata? State its significance. 2
- 13) Differentiate between mitosis and meiosis. 3
- 14) (a) In which phase of interphase duplication of DNA will occur? 3  
(b) Differentiate between anaphase 1 of meiosis and Anaphase of mitosis.
- 15) Diagrammatically show the difference between mitosis and meiosis. 5