**ATOMIC ENERGY EDUCATION SOCIETY, MUMBAI**

WORKSHEET -

**CELL DIVISION AND CELL CYCLE**

SUBJECT: BIOLOGY CLASS XII

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ROLL NO:\_\_\_\_\_\_\_DATE:\_\_\_\_\_\_\_\_\_

MAXIMUM MARKS : 30 MARKS OBTAINED \_\_\_\_\_\_

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**ONE MARK QUESTIONS:**

1.What is cell division?

2.What is the average cell cycle span for a mammalian cell?

3.What is a metaphasic plate?

4.What is meiosis?

5.What is interkinesis?

**TWO MARK QUESTIONS**

6.What is G0 of cell cycle?

7.How does cytokinesis in plant cells differ from that of animal cells?

8.What is crossing over?Name the enzyme responsible for it.

9.Differentiate prophase and prophase I.

10.What is the significance of meiosis?

**THREE MARK QUESTIONS**

11.Represent schematically the cell cycle,indicating the different phases and the formation of two cells from one parent cell.

12.Where does mitosis take place in plants and animals?What is the significance in multicellular organisms?

13.Describe the events of prophase in animal cells.

14.Name two basic phases of cell cycle and differentiate between them.

15.When and why does reduction in the number of chromosomes take place in meiosis?