CLASS XI – BIOLOGY ASSIGNMENT 2 CELL CYCLE & CELL DIVISION

- Define genome & cell cycle. What are the 2 basic phases of cell cycle?
- What is karyokinesis and cytokinesis? What are the three phases of interphase? Explain.
- 3. What is the significance of Go stage of cell cycle?
- With help of diagrams describe various events of different phases of mitosis.
- 5. Why is mitosis called equational division?
- 6. How does cytokinesis in plant cell differ from that in animal cell?
- 7. What is the significance of mitosis?
- 8. Can there be mitosis without DNA replicate in 'S' phase?
- 9. List the key features of meiosis and define meiosis. Draw stages of meiosis I & II.
- Describe the following: (a) homologous chromosomes (b) synapsis (c) bivalent (d) chiasmata
 Draw a diagram to illustrate your answer.
- 11. List the features of : anaphase I, metaphase I, telophase I
- What are the differences between: metaphase I & Metaphase of mitosis; anaphase I & anaphase of mitosis.
 Give significance of meiosis.