VERY SHORT ANSWER Type Questions

- The centriole forms spindle during cell division in cells.
- 2. What do you mean by sister and non-sister chromatids?
- What is the necessity of meiosis-II?
- Name the stage of meiosis in which the paired homologous chromosomes get shortened and thickened.

SHORT ANSWER Type I Questions |2 Marks|

- 5. An anther has 1200 pollen grains. How many pollen mother cells must have been there to produce them?
- Draw the stage of meiosis when synapsis takes place.
- What do you mean by heterotypic division ? Explain.
- Name the condition when cell undergoes meiosis.
- Give difference in the attachment of chromosomes to the spindle fibres in mitosis and meiosis-I.

SHORT ANSWER Type I Questions

3 Marks

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- 10. When and why does reduction in the number of chromosomes take place in meiosis?
- Describe the prophase of meiosis-II with the help of a diagram .
- 12. What marked the transition between
 - (i) Zygotene and pachytene
 - (ii) Pachytene and early diplotene
 - (iii) Mitotic metaphase and anaphase.
- With the help of diagrams, only depict the events that occur during prophase-I of meiotic division.

LONG ANSWER Type Questions

5 Marks

- 14. Anaphase-I of meiosis differs from anaphase of mitosis in one essential way. Describe the difference and explain, how does it affect the daughter cells.
- Explain cytokinesis. Also with the help of diagram write about cytokinesis in plant cell and animal cell.
- How does meiosis differ from mitosis? Give any five differences.
- 17. Describe the subphases of prophase-I of meiosis-I.