

7. Name the stage of meiosis in which actual reduction in chromosome number occurs. *anaphase*
8. ✓ Starch, Cellulose, Glycogen, Chitin are polysaccharides found among the following. Choose the one appropriate and write against each.
(a) Cotton fibre (b) Exoskeleton of Cockroach
(c) Liver (d) ~~Peeled~~ Potato
9. Differentiate between Racemose and Cymose Inflorescence.
10. Define Placentation. What type of placentation is found in *Dianthus*?

SECTION - B

6×4=24

Note : Answer ANY SIX questions. Each answer may be limited to 20 lines.

11. Describe the essential organs of Solanaceae.
12. What is Heterospory ? Briefly comment on its significance. Give two examples.
13. Give a brief account of Dinoflagellates.
14. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction ?
15. What are Hydrophytes ? Briefly discuss the different kinds of hydrophytes with examples.
16. State the location and function of different types of meristems.
17. Describe the structure of Nucleus.
18. Nucleic acid exhibits secondary structure. Justify with example.

SECTION - C

2×8=16

Note : Answer ANY TWO questions. Each answer may be limited 60 lines.

19. Define Root modification. Explain how root is modified to perform different functions (write any 6 modifications).
20. Describe the process of fertilization in Angiosperms with labelled diagrams.
21. Describe the T.S. of Dicot stem with a neat labelled diagram.