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FOR TS CLASS 11 PREPARATION

TS Inter 1st Year Model Paper 2027 Botany

EXAM	YEAR	TYPE	SUBJECT
TS Class 11	2027	Sample Paper	Botany

Board of Intermediate Education - Telangana

MODEL QUESTION PAPER

Botany-I (w.e.f. 2026-27)

Time: 3 hrs. **Max Marks: 60**

SECTION-A (10 × 2 = 20)

Answer ALL questions. (Very Short Answer Type Questions)

1. What is flora?
2. Who are herbalists? What are the books written by them?
3. Define venation. How do dicots differ from monocots with respect to venation?
4. Name a plant that has single fruit developing from the entire inflorescence. What is such a fruit called?
5. Between an annual and a perennial plant, which one has a shorter juvenile phase? Give one reason.
6. Give the technical description of anthers of *Allium cepa*.
7. Select an appropriate chemical bond among ester bond, glycosidic bond, peptide bond and hydrogen bond and write against each of the following :
   a. polysaccharide ----------
   b. protein ----------
   c. fat ----------
   d. water ----------
8. What is the significance of vacuole in a plant cell?
9. An anther has 1200 pollen grains. How many pollen mother cells must have been there to produce them?
10. Write the botanical name of the neem plant. To which family it belongs?

SECTION-B (6 × 4 = 24)

Answer ANY SIX questions. (Short Answer Type Questions)

11. Give a brief account of Dinoflagellates.
12. Differentiate between liverworts and mosses.
13. Describe any four types of placentations found in flowering plants.
14. Write a brief account on the class of Dicotyledonae of Bentham and Hooker's classification.

15. Give the biochemical composition of plasma membrane. How are lipid molecules arranged in the membrane?
16. Mention the key features of meiosis.
17. What is periderm? How does periderm formation take place in the dicot stem?
18. What are hydrophytes? Briefly discuss the different kinds of hydrophytes with examples.

SECTION-C (2 × 8 = 16)

Answer ANY TWO questions. (Long Answer Type Questions)

19. Explain different types of racemose inflorescences.
20. Draw the diagram of a microsporangium and label its wall layers. Write briefly about the wall layers.
21. Describe the T.S of monocot stem.