

Model Question Paper
Botany-Plant Anatomy-Part I
12th Standard

Biology

Reg.No. :

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- I. Answer all the questions.
- II. Use blue pen only.
- III. Question number 17 is compulsory.

Time : 01:00:00 Hrs

Total Marks : 65

5 x 1 = 5

Part-A

- 1) The change from meristematic tissue to permanent tissue is called
(a) differentiation. (b) self-perpetuating. (c) photosynthesis. (d) cell division
- 2) The type of tissue present in the petioles of banana and canna, is
(a) stellate parenchyma (b) prosenchyma (c) aerenchyma (d) chlorenchyma
- 3) The tissue generally present in all organs of plant is (or)----- is found in all organs of the plant.
(a) parenchyma (b) chlorenchyma (c) collenchyma (d) sclerenchyma
- 4) The lamellar collenchyma is seen in the hypodermis of
(a) Datura (b) Helianthus (c) Ipomoea (d) Nicotiana
- 5) The root hairs are produced from
(a) rhizodermis (b) trichomes (c) accessory cells (d) trichoblasts

Part-B

- 6) Define plant anatomy.
- 7) Define a tissue.
- 8) What is differentiation?
- 9) What is an aerenchyma? State its functions.
- 10) What are called macrosclereids? Give an example.

5 x 3 = 15

Part-C

- 11) Explain different types of meristems based on their positions with diagram.
- 12) Write on note about tracheids.
- 13) Write on notes on Vessels and Tracheae.
- 14) Draw and label the parts of transverse section of monocot root.
- 15) Draw the transverse section of dicot root and label the parts.

5 x 5 = 25

Part-D

- 16) Write an essay on the location, structure and functions of parenchyma.
- 17) a) Write an account of sclerenchyma with diagram.

2 x 10 = 20

(OR)

- b) Write an essay on xylem tissues.
