

**Model Question Paper**  
**Botany-Plant Anatomy-Part II**

12th Standard

**Biology**

Reg.No. : 

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:00:00 Hrs

Total Marks : 90

5 x 1 = 5

**Part-A**

- 1) The osteoclereids are seen in  
(a) seed coat of crotalaria (b) seed coat of pisum (c) plup of pyrus (d) petioles of banana
- 2) Bicollateral vascular bundles are seen in the members of  
(a) Malvaceae (b) Musaceae (c) Solanaceae (d) Cucurbitaceae
- 3) The root hairs originate from,  
(a) trichoblasts (b) endodermis (c) hypodermis (d) pericycle
- 4) The casparian strips are found in the endodermis of  
(a) dicot stem (b) dicot root (c) monocot stem (d) dicot leaf
- 5) The passage cells are found in endodermis of  
(a) dicot stem (b) monocot stem (c) dicot root (d) dicot leaf

**Part-B**

- 6) What is called callose?
- 7) What are called trichoblasts?
- 8) What are called guard cells?
- 9) What is a meristematic tissue?
- 10) What are called lateral meristems?

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) Describe the four kinds of cells found in phloem tissues.
- 17) Write an essay on the epidermal tissue system.
- 18) Describe the vascular tissue system with diagram.
- 19) Describe ground tissue system.

4 x 10 = 40

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