

Model Question Paper
Botany-Plant Anatomy-Part III
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 : 70

5 x 1 = 5

Part-A

- 1) Two major types of tissues present in plants are
(a) Simple tissue and complex tissue (b) Sclereid and fibre (c) Meristematic tissue and permanent tissue (d) Parenchyma and collenchyma
- 2) Intercalary meristem is present in the
(a) nodal region of stem (b) internode (c) stem tip (d) lateral side of stem
- 3) Secondary permanent tissues are produced by
(a) Protoderm (b) Phellogen (c) Procambium (d) Ground meristem
- 4) The function of aerenchyma is
(a) Photosynthesis (b) Protection (c) helps to float in water (d) storage of food
- 5) The type of parenchyma seen in the petioles of banana and Canna
(a) Storage parenchyma (b) stellate parenchyma (c) chlorenchyma (d) aerenchyma

Part-B

5 x 3 = 15

- 6) Differentiate sclereids from fibres.
- 7) What are brachy sclereids? Give example.
- 8) What are surface fibres?
- 9) What are called casparian strips?
- 10) What is a rhizodermis?

Part-C

4 x 5 = 20

- 11) Write differences between vascular system of dicot and monocot stem.
- 12) Draw and label the parts of a T.S. of a dicot stem.
- 13) Write short notes on the epidermis of a dicot leaf.
- 14) Write short notes on the vascular tissues of a dicot leaf.

Part-D

3 x 10 = 30

- 15) Describe the location, structure and functions of collenchyma.
- 16) Describe the internal structure of a dicot leaf.
- 17) a) Write short notes on the mesophyll of a dicot leaf.
b) Draw and label the parts of a T.S. of a dicot leaf. (sunflower leaf)
