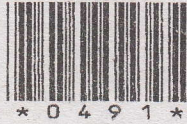


Oct-2014

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कदंब - 047

**BOTANY PAPER - I : BOT-241**  
**Plant Anatomy**  
**(New) (24145)**

**P. Pages : 2**

**Time : Two Hours**

**Max. Marks : 40**

**Instructions to Candidates :**

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicate full marks.
6. Draw neat labelled diagrams wherever necessary.

**1. Attempt any four.**

**8**

- a) What is Xylem ?
- b) Define secondary growth.
- c) Define epidermal tissue system.
- d) Explain stellate hairs.
- e) Define the term anatomy.
- f) Define secretory tissue.

**2. Attempt any two.**

**8**

- a) Describe any two types of stomata.
- b) Define cutinization and lignification.
- c) Differentiate between simple and complex tissues.



3. a) Attempt **any two**.

6

- i) Describe vascular bundle in maize.
- ii) Give the comparative anatomical features of dicot leaf and monocot leaf.
- iii) Give the principle of inflexibility.

b) Define Stomata.

2

4. Attempt **any two**.

8

- a) Sketch and labelled primary structure of monocot stem.
- b) Give functions of trichome.
- c) Define epidermal outgrowth. Explain any two trichomes.

5. a) Describe secondary growth in Dracaena stem.

6

OR

- a) Give the differences between dicot stem and monocot stem.
- b) What is intrafascicular cambium.

6

2

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