

Total No. of Questions :8]

SEAT No. :

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M.Sc. - II

BOTANY

**BO - 4.43 : Angiosperms (Special Paper - II)
(Semester - IV) (2008 Pattern) (New Course)**

Time : 3 Hours]

[Max. Marks :80

Instructions to the candidates:

- 1) Answer any five questions, selecting atleast two questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) All questions carry equal marks.*
- 4) Neat diagram must be drawn wherever necessary.*

SECTION - I

Q1) What is arboriculture? Describe various methods involved in pre and post care maintenance in tree plantation.

Q2) a) Describe various morphological characters used in identification of trees.
b) Describe properties and uses of wood in relation of structure.

Q3) Give an account of distribution of elements of wood as seen in T.S. and L.S.

Q4) Write short notes on any two of the following:

- a) Micropropagation.
- b) Selection of trees for avenue plantation.
- c) Phloem elements in wood.

P.T.O.

SECTION - II

Q5) What is mellitopalynology? Explain the foraging behaviour of bees. Add a note on unifloral honey.

Q6) Comment on:

- a) Path of pollen tube during pollen germination.
- b) In vitro culture of embryo.

Q7) What is polyembryology? Describe its different types. Add a note on its causes and importance.

Q8) Write short notes on any two of the following:

- a) Pollen ultrastructure.
- b) Ultrastructure of endosperm.
- c) Pollen storage.

