

**A-876**

Total Pages : 3

Roll No. ....

**BOT-552**

**M.Sc. BOTANY (MSCBOT)**

**(Medicinal Plants and Embryology of Angiosperms)**

2nd Year Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

**Note :-** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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( 1 )

P.T.O.

1. What are the most popular systems of medicine ? Discuss briefly the differences among them.
2. What is Ethnobotany ? Describe about five most common ethnobotanical plants of Uttarakhand.
3. What is polyembryology ? Explain the kinds of polyembryology and its advantages.
4. Define Parthenocarpy. Explain how it can be induced and its importance in horticulture.
5. What is Palynology ? Discuss principles and applications of Palynology.

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Give a brief note on Apomixis.
2. Discuss in brief about the Medicinal value and occurrence of *Atropa belladonna*.
3. Write short notes on any *two* of the following :
  - (a) Indian Aloe
  - (b) Tapetum
  - (c) Basil

4. Discuss about the conservation strategies for medicinal plants.
5. Discuss about the types of ovules in angiosperms.
6. Describe cultivation practices for any two medicinal plants.
7. What is experimental embryology ? Describe briefly its significance.
8. Write a short note on scope of Pharmacognosy.

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