

**C058**

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Roll No. ....

## **BOT-552**

### **Medicinal Plants and Embryology of Angiosperms**

M.Sc. BOTANY (MSCBOT)

2nd Year Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION–A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

- 1.** What is Ethnobotany? How it is different from economic botany? Discuss five important enthobotanical plants.

2. What do you understand by Pharmacognosy? Write a note on pharmacognostic studies of a crude drug. Give a brief account on adulteration of plant drug.
3. Write an essay on fertilization in angiosperms.
4. Write a detailed account on polyembryony and its kinds. What are the applications of polyembryony?
5. What is parthenocarpy? Explain how it can be induced. Add a note on its importance.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Write notes on following (any *five*) :
  - (a) *Ex-situ* conservation.
  - (b) *In-situ* conservation.
  - (c) Cryopreservation.
  - (d) CITES.
  - (e) CBD.
  - (f) IUCN.
  - (g) Gene bank.

2. Differentiate between Ayurvedic and Siddha system of medicines.
  3. Discuss medicinal value and occurrence of *Atropa belladonna*.
  4. Give a brief account of different types of ovule in angiospermic plants.
  5. What do you understand by self incompatibility? Discuss the methods to overcome self incompatibility.
  6. Write a short note on anther culture.
  7. Give a brief account on application of embryology in context to taxonomic problems.
  8. What do you understand by palynology? What are its applications? Write a note on forensic palynology.
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