

Roll No. ....

## **BOT–552**

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

M. Sc. BOTANY (MSCBOT–12/13/16/17)

Second Year, Examination, 2018

**Time : 3 Hours**

**Max. Marks : 80**

**Note :** This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Learners are required to attempt the questions contained in these Sections according to the detailed instructions given therein.

#### **Section–A**

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

**Note :** Section ‘A’ contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. What is ethnobotany ? Describe its scope and importance.
2. Discuss adulteration of plant drugs.
3. Write an essay on apomixis with suitable example.
4. Define Parthenocarpy. Explain, how it can be induced and its importance in horticulture.

**(B-5) P. T. O.**

**Section-B****(Short Answer Type Questions)**

**Note :** Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer *four* (04) questions only.

1. Describe the development of male gametophyte.
2. Discuss experimental embryology.
3. Describe various principles and application of polynology.
4. What is polyembryony ?
5. Describe conservation of medicinal plants.
6. What is sexual incompatibility ?
7. Discuss about types of ovules.
8. What is pharmacognosy ?

**Section-C****(Objective Type Questions)**

**Note :** Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

Fill in the blanks :

1. Development of sporophyte without gametic fusion is known as ..... .
2. How many pollen mother cell will produce 1000 pollen grain ..... ?
3. Saffron is produced from style and stigma of ..... .
4. *Rauwolfia serpentina* releases a drug named as ..... .
5. Intine of pollen grain is made up of ..... .

**[ 3 ]**

Indicate whether the following statements are True *or* False :

6. Double fertilization is characteristic of angiosperms.  
(True/False)
7. Aconite is obtained from fruit. (True/False)
8. Ruminant endosperm is rough. (True/False)
9. Quinine is obtained from Cannabis. (True/False)
10. Emasculation is achieved by removal of sepals and petals. (True/False)