

Total Pages : 3

Roll. No. : .....

**Examination Session June-2022**

**(Fourth Semester)**

**MBOT-607**

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

**[ Embryology of Angiosperms ]**

**Time : 2 Hours ]**

**[ Max. Marks : 40**

**Note :** This paper is of Forty (40) marks divided into two (02) Section 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 Ten (10) marks each. Learners are required to answer any two (02) questions only.  $2 \times 10 = 20$

1. Write a detailed account on development of male gametophyte in angiosperms.
2. Give a detailed account of different types of tetrasporic embryo sacs in angiosperms.
3. Discuss in detail about techniques and applications of anther culture.
4. Write a detailed account on application of embryology in agriculture practices.
5. Discuss in detail about the principles and applications of palynology.

## SECTION—B

### (Short-Answer-Type Questions)

**Note :** Section 'B' contains eight (08) short-answer-type questions of Five (05) marks each. Learners are required to answer any four (04) questions only.  $4 \times 5 = 20$

1. Write a short note on microsporogenesis.
2. Write briefly about induced parthenocarpy.
3. Write a short note on nucellar culture.
4. Write a brief note on biological significance of self-compatibility.
5. Write about the importance of apomixis.
6. Write a short note on polyembryony.
7. Briefly describe the aeropalynology.
8. Write about exine sculpturing.

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