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## **MBOT-607**

### **Embryology of Angiosperms**

M.Sc. Botany (MSCBOT)

4th Semester Examination, 2023 (June)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) 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 answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **SECTION–A**

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

**Note :** Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.  
(2×9½=19)

- 1.** Write a detailed account on structure and function of tapetum.

2. Describe the structure and function of stigma in post pollination phase in germination of pollen.
3. Give a detailed account of methods to overcome self incompatibility.
4. Write in detail about different types of endosperm development in angiosperms.
5. Write a detailed account on embryogenesis in dicots.

### **SECTION-B**

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

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Write a short note on bisporic embryo sac.
2. Write short note on the following :
  - (i) Nucellus
  - (ii) Pseudoembryo sac
  - (iii) Hypostase & Epistase
  - (iv) Megaspore haustoria

3. Write a short note on endothelium.
  4. Write briefly about double fertilization in angiosperms.
  5. Write a short note on Aleurone tissue.
  6. Write a short note on cell structure of a zygote.
  7. Write a brief note on suspensor.
  8. Write a short note on endosperm culture and its uses.
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