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# **MSCBOT-509**

## **Plant Reproduction**

M.Sc. Botany(MSCBOT)

2nd Semester Examination, 2023 (June)

**Time : 2 Hours]**

**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 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

- 1.** Discuss the structure and development of angiosperms anther.

2. Which are the main types of embryo sac development.
3. What is Dormancy ? Describe in detail the types of Dormancy.
4. Describe fertilization in angiosperms and write the significance of double fertilization.
5. Write short notes on the following :
  - (a) Types of flowers
  - (b) Types of ovary.

### **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 any Four (04) questions only. (4×8=32)

1. Write note on function of endosperm.
2. Describe development of Dicot embryo.
3. What do you understand by the term Polyembryony?
4. What are auxins ? Give their physiological role in higher plants.

5. Describe the mechanism of actions of Giberellins.
  6. Write short notes on the following :
    - (a) Parthenocarpy.
    - (b) Apomixis.
  7. Write a short essay on dispersal of fruit and seeds.
  8. Describe anther culture in brief.
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