

C080

Total Pages : 3

Roll No.

MSCBOT-509

Plant Reproduction

M.Sc. BOTANY (MSCBOT)

2nd Semester 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. Describe in detail about natural and artificial methods of vegetative reproduction in flowering plants.
2. Write a detailed account on tapetum and its function.

3. Describe various types of ovules found in angiosperms with the help of suitable diagrams.
4. Describe succulent fruits and aggregate fruits with suitable examples.
5. What is seed dormancy? Describe the factors causing seed dormancy and methods employed to overcome it.

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 a short note on micropropagation.
2. Write short notes on the following.
 - (i) Anemophily
 - (ii) Hydrophily
 - (iii) Unusual pollen tetrad
 - (iv) Cleistogamy
3. Write a brief note on bisporic embryo sac.

4. Differentiate between the following.
 - (i) Etaerio and Composite fruits.
 - (ii) Achene and Cypsefta.
 - (iii) Drupe and Berry.
 - (iv) Epicotyl and Hypocotyl.

 5. Write briefly about various types of seed germination.

 6. Write a short note on adventive embryony.

 7. Write a short note on parthenocarpy and its significance.

 8. What is embryo culture? Write briefly about the application of embryo culture.
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