

S-44

Total Pages : 3

Roll No.

MBOT-607

Embryology of Angiosperms

M.Sc. Botany (MSCBOT)

4th Semester Examination, 2022 (Dec.)

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.

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. Give an illustrated account of monosporic and bisporic embryo sacs in angiosperms.

2. Define self incompatibility & explain its mechanism.
3. Write a detailed account on functions of endosperm.
4. Write an essay on embryology in relation to taxonomy.
5. Write a comprehensive account of polyembryony.

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 nutrition of the embryo sac.
2. Write a brief note on Melittopalynoltry.
3. Write a short note on female gametophyte in angiosperms.
4. Write briefly about the role and fate of synergid in fertilization.
5. Write briefly about cytology of endosperms.

6. Write a short note on the following :
- (a) Diplospory.
 - (b) Adventive embryony.
 - (c) Apospory.
 - (d) Parthenogenesis.
7. Write a short note on Agamospermy.
8. Write a short note on techniques of anther culture.
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