

A-870

Total Pages : 3

Roll No. -----

MBOT-607

Embryology of Angiosperms

M.Sc. Botany (MSCBOT)

4th Semester Examination 2024 (June)

Time: 2:00 hrs

Max. Marks: 35

Note : This paper is of Thirty Five (35) marks divided into Two (02) Section A and B. Attempt the questions contained in these sections according to the detailed given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

P.T.O.

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Section-A (Long-Answer-Type Questions)

Note : Section 'A' contains Five (05) long-answer-type questions of Nine and Half ($9\frac{1}{2}$) marks each. Learners are required to answer any Two (02) questions only.

[$2 \times 9\frac{1}{2} = 19$]

- Q.1. Write a detailed note on structure and functions of tapetum.
- Q.2. With the help of suitable diagrams give a detailed account of monosporic and bisporic embryo sac in angiosperms.
- Q.3. Describe different methods to overcome self incompatibility.
- Q.4. Write a detailed account on role of stigma in post pollination phase in germination.
- Q.5. Write an essay on embryology in relation to taxonomy.

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.

[$4 \times 4 = 16$]

- Q.1. Write a short note on microsporogenesis.

- Q.2. Write short note on double fertilization in angiosperms.
- Q.3. Write short note on the following:
- a. Pseudoembryo sac
 - b. Alurone tissue
- Q.4. Write briefly about form, structure and function of suspensor.
- Q.5. Write short note on the following:
- a. Apospory
 - b. Diplospory
- Q.6. Give a brief note on polyembryony.
- Q.7. Define parthenogenesis in brief.
- Q.8. Write a short note on aeropalynology.
