

M.Sc.(Botany) (CBCS Pattern) Semester-IV
PSCBOTT15.1 - Paper-III - Reproductive Biology of Angiosperm-II

P. Pages : 1

Time : Three Hours



GUG/W/24/11358

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks
2. Illustrate your answers with suitable examples and diagram.

1. What is Endosperm? Explain various types of endosperm and its role for embryo development. **16**

OR

Write notes on:

- a) Double fertilization and triple fusion. **8**
b) Intra-ovarian pollination. **8**

2. Define Polyembryony. Write its causes and classification. **16**

OR

Write notes on:

- a) Ultrastructure and cytology of suspensor cell. **8**
b) Embryo endosperm relation. **8**

3. Describe Anther culture and its applications. **16**

OR

Write notes on:

- a) Apomixis causes and its significance. **8**
b) Nutritional and hormonal factors of somatic embryogenesis. **8**

4. Write in detail on somatic hybridization and its applications. **16**

OR

Write notes on:

- a) Biotransformation and Bioreactors. **8**
b) Production of Cybrids and hybrids. **8**

5. Write short notes on:

- a) Gynogenesis **4**
b) Ultrastructure of Zygote **4**
c) Parthenocarpy **4**
d) production of useful compound through cell culture. **4**
