

BOT-16.2 - Paper-XVI : Reproductive Biology of Angiosperms (Special-II)

P. Pages : 1

Time : Three Hours



GUG/S/19/2368

Max. Marks : 80

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

1. Describe in detail various types of endosperms and its chemical composition and role in embryo development. **16**

OR

Write notes on :

- a) Double fertilization and triple fusion. **8**
b) Gynogenesis. **8**

2. Write a detailed account on polyembryony. **16**

OR

Write notes on:

- a) Physiology and biochemistry of suspensor. **8**
b) Induction of polyembryony. **8**

3. Write a note on concept and scope of biotechnology with special focus on plant tissue culture. **16**

OR

Write notes on:

- a) Pollen analysis of honey. **8**
b) Embryogenesis from callus. **8**

4. Write on biotransformation and production of useful compounds through cell culture and its applications. **16**

OR

Write notes on:

- a) Isolation of protoplast. **8**
b) Production of Hybrids. **8**

5. Write short notes on:
a) In-vitro-fertilization. **4**
b) Zygote. **4**
c) Embryo Culture. **4**
d) Bioreactors. **4**
