

2018

Full Marks : 50

Time : As in the programme

The figures in the right hand margin indicate marks.

Answer all the questions.

GROUP-A

1. What is parthenogenesis? 1
2. Define homogamy. 1
3. What is triple fusion? 1
4. Which branch deals with the study of pollen grain? 1
5. Which is the most common type of ovule found in angiosperm? 1
6. What is the ploidy of endosperm nucleus? 1
7. Define Geitonogamy. 1
8. Pollination by bat is called as _____. 1
9. Define the term perisperm. 1
10. In which plant species adventitive polyembryony occurs ? 1

GROUP-B

2. Briefly describe the contribution of P. Maheswari in the field of embryology. Describe the process and need of test-tube fertilization in angiosperms. 8

OR

Write notes on :

4+4

- a) Contribution of W. Hofmeister
- b) Scheilden's theory of origin of embryo

3. What is a microspore? Describe the process of microsporogenesis in a typical angiospermic plant. 8

OR

Write notes on :

4+4

- a) NPC system
- b) Tapetum

4. Give an account of classification, structure and function of embryo sac. 8

OR

Write notes on:

4+4

- a) Megasporogenesis
- b) Cellular endosperm

5. Explain the process of pollen-stigma interaction in angiosperm. 8

OR

Write notes on : 4+4

- a) Double fertilization
 - b) Gametophyte self incompatibility
6. Define seed. Explain its structure, function and dispersal mechanism. 8

OR

Write notes on: 4+4

- a) Apomixis
 - b) Polyembryony
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