

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2019
(Second Semester)
Branch - BOTANY

REPRODUCTIVE PLANT BIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Define pedicellate.
- 2 Define bisexual flower.
- 3 What is tidal rhythms?
- 4 Who discovered the phenomenon of photoperiodism?
- 5 What is obturator?
- 6 What is aril?
- 7 Define hypophysis.
- 8 Define mosaic endosperm.
- 9 What is epicarp?
- 10 What is climacteric?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain the contrivances for cross pollination with suitable examples.
OR
b Define placentation. Explain the different types of placentation with diagram.
- 12 a Give an account on biological clock.
OR
b Write short notes on photoperiodic induction.
- 13 a Write about tapetum.
OR
b Describe the Nemec phenomenon.
- 14 a Define endosperm. Describe the process of cellular endosperm formation.
OR
b Explain the development of dicot embryo.
- 15 a Explain different methods to break seed dormancy.
OR
b Give an account of the physiology of seed germination.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Discuss in detail about cymose inflorescence.
- 17 Give an account of the structure, function and mode of action of phytochromes.
- 18 Draw and explain the structure of ovule.
- 19 Describe elaborately post fertilization changes in the ovary.