

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(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 Write the parts of the flower.
- 2 What do you mean by spike inflorescence?
- 3 Differentiate Pr from Pfr forms.
- 4 Define circadian rhythms.
- 5 Write the function of tapetum in anther.
- 6 What is pollen compatibility?
Write any two Difference between monocot embryo and dicot embryo.
- 8 Write about endosperm haustoria.
- 9 What is simple fruit? Give an example.
- 10 Write about seed dormancy.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a With suitable sketch describe the morphology of flower.
OR
b Describe the different types of pollination.
- 12 a Enumerate the biochemical composition of phytochromes.
OR
b Explain biological clock in plants.
- 13 a Explain the process of development of male gametophyte.
OR
b Describe the structure of ovule.
- 14 a Summarize the process of fertilization.
OR
b Illustrate the development of dicot embryo.
- 15 a Draw and explain the structure of seed.
OR
b Discuss the physiology of seed germination.

SECTION - C (30 Marks!)

Answer any THREE Questions

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

- 16 Write an essay on the types inflorescence studied by you.
- 17 Explain the role of phytochrome in flowering and other plant functions.
- 18 With suitable sketch describe the structure of anther.
- 19 Explain any three types of endosperm studied by you.
- 20 -Describe the types of fruits with suitable example.