

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(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 What is Androecium?
- 2 Write about Raceme inflorescence.
- 3 Define phytochrome.
- 4 What is circadian rhythm?
- 5 What is Tapetum?
- 6 Write about micropyle.
- 7 What is double fertilization?
- 8 Write about ruminant endosperm.
- 9 Define fleshy fruit.
- 10 What is breaking of dormancy?

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Describe the parts of a flower in technical terms.
OR
b List out the types of pollination and explain them.
- 12 a Explain the differences between Pr and Pfr form of phytochromes.
' OR
b Comment on Photo induction of flowering?
- 13 a Explain the structure and development of male gametophyte.
OR
b Write a short note on stigma-pollen compatibility.
- 14 a Explain the development of Dicot embryo.
OR
b Explain the development of Helobial endosperm.
- 15 a Write about the physiology of fruit ripening.
OR
b Explain the types of seed germination.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 With suitable diagrams, explain the types of inflorescence.
- 17 Explain the structure, biochemical composition and physiological functioning of phytochromes. ,
- 18 Explain in detail about microsporogenesis and write its significance with suitable diagrams.
- 19 Write an essay on the process of fertilization in Angiosperms. Add a note on Post-fertilization changes.
- 20 Give a detailed account on the classification and structure of fruits.