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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022 (Second Semester)

Branch - BOTANY

REPRODUCTIVE PLANT BIOLOGY

	Time: Three Hours		Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions questions carry EQUAL mark	$(5 \times 1 = 5)$
1	When the sepals fall off as soon as the flower has opened out is known		
	as (i) Accrescent (iii) Caducous	(ii) Deciduous(iv) Persistent	
2	Phytochrome is a photo (i) Geotropism (iii) Photoperiodism	osensitive pigment involved in (ii) Phototropism (iv) Photorespiration	The state of the s
3	After fertilization, ovule (i) Integument (iii) Embryo	e develops into (ii) Seed (iv) Endosperm	
4	The early globular embr (i) Proembryo (iii) Endosperm	yo is the (ii) Symgamy (iv) Nuclei	
5	When a fruit is develope flower is known as (i) Simple dry fruits (iii) Multiple fruits	ed from a polycarpellary, apo (ii) Simple fleshy (iv) Aggregate fru	fruits
	A	CCTION - B (15 Marks) Answer ALL Questions Questions Carry EQUAL Man	rks $(5 \times 3 = 15)$
6	a. Give a note on self pollib. Explain Mixed infloresc	OR	
7	a. Write the difference betyb. Describe Biological cloc	OR	
8	a.Discuss the abnormalities b. Narrate stigma pollen com	OR	

a. Comment on endosperm haustoria.

- b. Explain the development of embryo in monocot plant.
- 10 a. Outline the classification of fruits.

b. Discuss any two methods for breaking seed dormancy.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Draw and expalin cohesion of stamens.

- b. Discuss pistils with examples.
- 12 a. Point out the role of phytochromes in flowering.

b. Explain the composition of phytochromes.

13 a. Explain nemac phenomenon.

OR

- b. Draw and explain the structure of ovule.
- 14 a. Describe any two types of endosperm studied by you.

- b. Explain the post fertilization changes in embryo.
- 15 a. Elucidate the physiological basis for fruit ripening.

b. Write an essay on the structure and types of seeds.

END