

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2026
(Second Semester)**

Branch - **BOTANY**

REPRODUCTIVE PLANT BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	The main axis of the inflorescence is elongated in a _____. (i) Corymb (ii) Capitulum (iii) Cyathium (iv) Catkin	K1	CO1
	2	The internode between calyx and corolla is called _____. (i) Androphore (ii) Anthophore (iii) Gynophore (iv) Gynandrophore	K2	CO1
2	3	Phytochrome becomes active in _____. (i) Green light (ii) Blue light (iii) Red-far red light (iv) Yellow light	K1	CO2
	4	The long day plant requires _____. (i) Equal amounts of P _R and P _{FR} (ii) High ratio of P _{FR} to P _R (iii) High ratio of P _R to P _{FR} (iv) Only P _{FR}	K2	CO2
3	5	The pro-ubisch bodies are converted to ubisch bodies when they are coated by _____. (i) Sporopollenin (ii) Sporoderm (iii) Cutin (iv) Suberin	K1	CO3
	6	The ovule in an angiosperm is technically equivalent to _____. (i) Megaspore (ii) Megasporophyll (iii) Megaspore mother cell (iv) Megasporium	K2	CO3
4	7	An endosperm having irregular boundaries is called as _____. (i) Nuclear (ii) Cellular (iii) Helobial (iv) Ruminant	K1	CO4
	8	Haustorial appendages may arise from the following part of the embryo _____. (i) Dermatogen (ii) Cotyledons (iii) Root tip (iv) Suspensor	K2	CO4
5	9	The edible part of apple and pear is _____. (i) Mesocarp (ii) Endocarp (iii) Thalamus (iv) Epicarp	K1	CO5
	10	Seeds whose germination is affected by light are called as _____. (i) Photosensitive (ii) Photic (iii) Photoblastic (iv) Photomorphogenesis	K2	CO5

Cont...

SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	What are the components of pistil?	K1	CO1
		(OR)		
	11.b.	How would you explain self pollination?		
2	12.a.	Can you explain the composition of phytochrome?	K2	CO2
		(OR)		
	12.b.	What can you say about circadian rhythms?		
3	13.a.	What inference can you make to explain stigma pollen compatibility?	K1	CO3
		(OR)		
	13.b.	What are the parts of ovule?		
4	14.a.	What is your understanding of cellular and helobial endosperm?	K4	CO4
		(OR)		
	14.b.	What is the function of apomixis and parthenocarpy?		
5	15.a.	Can you outline the classification of fruits?	K3	CO5
		(OR)		
	15.b.	What can you say about physiology of seed germination?		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Can you recall racemose and cymose inflorescence in detail?	K2	CO1
2	17	How will you analyze the Indian Knowledge System's understanding of biological rhythms?	K5	CO2
3	18	Can you list the structure and development of male gametophyte?	K4	CO3
4	19	What inference can you make on process of fertilization and changes post to it?	K4	CO4
5	20	Based on what you have studied, how will you explain the physiological basis for ripening of fruits?	K3	CO5

Z-Z-Z

END