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22BOU310N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Third 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	Pollination by insects is called as ---------- a. Wind Pollination b. Water Pollination c. Self Pollination d. Entomophily	K1	CO1
	2	Onion is an example of ---------- inflorescence a. special b. cymose c. racemose. d. umbel	K2	CO1
2	3	The reversal of etiolation effected by light is called -------- a. Photomorphogenesis b. Richmond Lang effect c. Anisotropic wall expansion d. Red-far red light interaction	K1	CO2
	4	Name the factor that influences the process of flowering in plants. a. Photoperiod b. Water in the soil c. The acidity of the soil d. Amount of green pigment	K2	CO2
3	5	What is the name of the Embryo sac of the angiosperms having eight nuclei. a. only tetrasporic b. only bisporic c. only monosporic d. any of the following.	K1	CO4
	6	The female reproductive parts of a flower, the stamens, are collectively known as a. Androecium b. Filament c.Anther d.Gynoecium	K2	CO4
4	7	What is the mass of nutritive material outside the embryo sac ? a. Protoplasm b. Pericarp c. Ectoderm along with fertilization d. Perisperm	K1	CO5
	8	The two nuclei at the end of the pollen tube are called -------- a. Tube nucleus and a generative nucleus b. Sperm and ovum c. Generative nucleus and stigma d. Tube nucleus and sperm	K2	CO5
5	9	Orange is an example of ---------- a. pepo b. hesperidium c. drupe d. pome	K1	CO6
	10	During the germination of seeds, the seed coat ruptures due to a. massive imbibition of water b. differentiation of cotyledons c. a sudden increase in cell division d. massive glycolysis in cotyledons and endosperm	K2	CO6

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.	Analyse the contrivances of a flower for effective pollination.	K4	CO1
		(OR)		
	11.b.	Discover the parts of the flower with a neat diagram.		
2	12.a.	Interpret biological clock in plants.	K2	C02
		(OR)		
	12.b.	Summarize the biochemical composition of phytochromes.		
3	13.a.	Experiment with nemec phenomenon in plants.	K3	CO4
		(OR)		
	13.b.	Describe the structure of anther.		
4	14.a.	Categorize the post fertilization changes.	K4	CO5
		(OR)		
	14.b.	Analyze about endospore haustoria.		
5	15.a.	Explain the types of fleshy fruits.	K5	CO6
		(OR)		
	15.b.	Discuss the types 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	Classify the types of inflorescence.	K4	CO1
2	17	Explain the role of circardian rhythm in plants.	K5	CO2
3	18	Discuss the Abnormalities in Pollen germination.	K5	CO3
4	19	Assess the development of monocot embryo.	K5	CO4
5	20	List out the methods to break dormancy.	K4	CO5

Z-Z-Z END