

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2025
(Fourth Semester)
Branch – **ZOOLOGY**

AGRICULTURAL ENTOMOLOGY

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	What is the primary characteristic of insects in the order Coleoptera? a) Wings covered in scales b) Two pairs of wings, hard forewings c) Piercing-sucking mouthparts d) Jumping hind legs	K1	CO1
	2	Which method of insect collection is most suitable for nocturnal species? a) Pitfall traps b) Light traps c) Sweep nets d) Vacuum collection	K2	CO2
2	3	Relate the primary damage caused by <i>Nephantis serinopa</i> (Coconut caterpillar) is: a) Feeding on coconut roots b) Attacking coconut fruits c) Defoliation of coconut leaves d) Destruction of the coconut trunk	K1	CO1
	4	What is the primary damage caused by <i>Tryporyza incertulas</i> (Rice stem borer)? a) Leaf defoliation b) Tunneling in the soil c) Root damage d) Damage to the stem and grains	K2	CO1
3	5	Select the following type of insecticide? a) Carbamates b) Glyphosate c) Methyl bromide d) Sodium nitrate	K1	CO1
	6	Choose the most common method of applying liquid pesticides? a) Broadcasting b) Foliar spraying c) Soil drenching d) Trapping	K2	CO2
4	7	Select the mulberry plant is best known for its role in which industry? a) Textile b) Agriculture c) Sericulture d) Horticulture	K1	CO1
	8	Which of the following is a major pest that affects mulberry plants? a) Grasshopper b) Mulberry aphid c) Root borer d) Leaf miner	K2	CO2
5	9	Tell the causes of disease Flacherie in silkworms? a) Bacterial infection b) Viral infection c) Fungal infection d) Protozoan infection	K1	CO1
	10	Find the method of reeling is the most common in modern silk production? a) Hand reeling b) Mechanical reeling c) Solar reeling d) Manual rolling	K2	CO2

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 is the difference between complete and incomplete metamorphosis in insects?	K3	CO3
		(OR)		
	11.b.	Describe the significance of insects in ecosystems.		
2	12.a.	Explain about morphology, life history, destruction caused, and control measures of <i>naphalocrocis medinalis</i> (Rice Leaf Folder).	K4	CO4&CO5
		(OR)		
	12.b.	Discuss about morphology, life history, destruction caused, and control measures of <i>Chilo infuscatellus</i> (Pink Stem Borer).		
3	13.a.	How are pesticides classified based on their chemical composition?	K3	CO3
		(OR)		
	13.b.	How does biological control work in pest management.		
4	14.a.	Classify Morphology of the Mulberry Plant.	K4	CO4
		(OR)		
	14.b.	List out manuring and its application of fertilizers.		
5	15.a.	Discuss the morphology of the <i>Bombyx mori</i> silkworm.	K4	CO4
		(OR)		
	15.b.	What are the different silkworm rearing methods and appliances used?		

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	Discuss about the Methods of insects Collection and Preservation Techniques.	K5	CO5
2	17	Justify morphology, life history, destruction caused, and control measures of <i>Amrasca biguttula</i> (Cotton Leafhopper).	K6	CO5
3	18	Elaborate the different types of pesticide with suitable examples.	K5	CO5
4	19	Explain about different methods of mulberry cultivation.	K4	CO4
5	20	Describe the equipment used in the reeling of silk from the cocoon.	K4	CO5

Z-Z-Z

END