PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATIONS MAY 2024

(Fourth Semester)

Branch - ZOOLOGY

AGRICULTURAL ENTOMOLOGY

	110111002101			
Time	: Three Hours		Maximum: 50 Marks	
	Answer	N-A (5 Marks) ALL questions carry EQUAL marks	$(5 \times 1 = 5)$	
1	What is the purpose of using a swe (i) Collecting flying insects (iii) Sampling aquatic insects	(ii) Capturing ground	l-dwelling insects	
2	Find out the stage of <i>Orseolia oryz</i> measures? (i) Adult Stage (iii) Pupal Stage	(ii) Larval Stage (iv) Egg Stage	or effective control	
3	Which application method involve around the plant's root zone? (i) Foliar application (iii) Fertigation	s injecting pesticides direction (ii) Basal application (iv) Soil drenching		
4	dentify the mulberry variety that is commonly cultivated for silkworm rearing? i) Morus alba (ii) Morus cathayana iii) Morus macroura (iv) Morus serrata			
5	Which process follows the reeling (i) Spinning (iii) Weaving	(ii) Dyeing (iv) Twisting	ycle?	
	Answer A	V - B (15 Marks) ALL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$	
6 a	List out any ten general characte OR	List out any ten general characteristic features of class Insecta.		
b	Summarize the various methods	adopted for the collection	of insects.	
7 a	Analyze the methods employed for the control of jassids in cotton field. OR			
b	Discuss the life history of coconut rhinoceros beetle.			
8 a	OR			
b	Elucidate the chemical control st	rategies in integrated pest	management.	

With a neat sketch discuss the morphology of a mulberry plant. 9

OR

- Explore the different varieties of mulberry and their uses. b
- List out the necessary conditions for successful silkworm rearing. 10 a

Highlight technological advancements, efficiency and output differences between b the traditional hand-operated and automated machinery in silk industry.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Categorize the insects up to the level of order with examples.

- b Explain the methods adopted for preservation techniques and its importance in entomology.
- 12 a Examine the morphology, life history, symptoms and control measures of rice pests.
 - b Provide an in-depth description of the morphology, life history, damages and preventive measures of sugarcane pests.
- 13 a Assess the environmental impact of different pesticide application methods.

OR

- b Evaluate the effectiveness of pest management strategies in controlling insect populations.
- 14 a Discuss the Vegetative propagation method of cultivation of mulberry.

- b Emphasize the symptoms and spread of the mulberry disease powdery mildew.
- 15 a Elaborate the life cycle of Bombyx mori.

b Focus on the symptoms, mode of infection and management strategies for the bacterial disease Flacherie.

Z-Z-Z

END