[This question paper contains 4 printed pages.]

Sr. No. of Question Paper	:	6817	D	Your Roll No
Unique Paper Code	:	217565		
Name of the Course	:	: B.Sc. Applied Life Sciences with Agrochemicals and Pest Management		
Name of the Paper	:	Applied Entomolog	у	
Semester	:	V		
Time : 3 Hours				Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. Attempt five questions in all including Question No. 1 which is compulsory.

3. Draw well labeled diagram wherever necessary.

1. (a) Define :

- (i) Vector
- (ii) Honey flow period
- (iii) Myiasis
- (iv) Stifling

(v) Economic injury level

(b) Expand the abbreviations :

- (i) CSRS
- (ii) IARI

P.T.O.

(4)

(5)

(iii) S	SALO
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(iv) EDCT

(c) Distinguish between :

- (i) Stadium and instar
- (ii) Saltatorial and raptorial legs

(iii) Solitary and gregarious phase of Locust

(iv) Dead heart and bunchy top

(d) Fill in the blanks :

(i) Labial glands of silkworm are modified _____.

(ii) Clavate type of antenna is found in _____.

(iii) Elytra are modified _____ present in the order _____

(e) Indicate whether following statements are true or false : (4)

- (i) Halteres are found in dragonflies.
- (ii) Larva of mosquito is called wriggler and pupa as tumbler.
- (iii) Both nymphs and adults of Gundhy bug suck sap of sugar cane plant.
- (iv) Honey bees converts nectar into honey and pollens into bee wax.
- Write name of diseases transmitted by the following insect : (f) (2)

(8)

(4)

(i) Sand fly

(ii) Culex

- 2. (a) Explain biotic theory of periodicity for the origin of swarm of desert locust.
 - (b) Describe the damage caused by the termite. Write about its control measures. (6+6)
- 3. (a) Describe life cycle and economic importance of lac insect.
 - (b) Enumerate diseases of silkworm. (8+4)
- 4. (a) Describe the bionomics of any one coleopteran pest of stored grain.
 - (b) Explain the importance of moisture contents, Oxygen and temperature in safe storage of food grain.
 (6+6)
- Write the distinguishing features of Xenopsylla. Describe its life cycle. Add a note on its medical importance. (12)
- 6. (a) Write scientific names of important pests of cotton. Describe the nature of damage caused, life cycle and control measure for any one of them.
 - (b) Give brief account of the economic importance of the following agricultural pests :
 - (i) Helicoverpaarmigera
 - (ii) Pyrillapurpusilla (8+4)
- 7. Write short notes on any three of the following :
 - (i) Pusa bin

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- (ii) Newton's hive
- (iii) Central anti locust control organization
- (iv) Rearing and culture of Insect pest

(v) Pediculus

(4+4+4)