

Roll No.: .....

**SGT UNIVERSITY****END TERM THEORY EXAMINATION JULY - 2022**

Faculty/College of Study:	Agricultural Sciences	Year/Semester:	2 <sup>nd</sup> Semester
Program:	B.Sc. (Hons.) Agriculture	Duration:	03:00 Hrs.
Course/Subject:	Insect Ecology and Pest Management	Maximum Marks:	50
Course/Subject Code:	11010207	Batch:	2020 & 2021

**Instructions: -**

1. Write Your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**SECTION-A****(Very Short Answer Type Questions)****Note: All Questions are compulsory: -****[12X1=12]**

S. No.	Question	Marks Allotted
1	What is the colour of the triangle for highly and moderately toxic insecticides?	1
2	Describe very briefly the mode of action of <i>Azadirachta indica</i> .	1
3	When and who discovered the Insecticidal properties of DDT?	1
4	What do you understand by temperature preferendum?	1
5	What are two main sub-division of ecology?	1
6	Differentiate between population and community.	1
7	Give two examples of insect repellent.	1
8	Define quiescence.	1
9	What are insect predators?	1
10	Describe ultra-low volume spray.	1
11	Give antidote for general stomach poisoning by insecticide.	1
12	Write the name of authors of the book 'Elements of Economic Entomology'.	1

**SECTION-B**  
**(Short Answer Type Questions)**

**Note: All Questions are compulsory: -**

**[4X2=8]**

S. No.	Question	Marks Allotted
13	How temperature affect development, fecundity and dispersal of insects?	2
14	How competitions with other organisms affect the abundance and distribution of insects?	2
15	Explain specific objectives of Insecticide act, 1968	2
16	Classify the insects on the basis of nature of occurrence.	2

**SECTION-C**  
**(Descriptive Answer Type Questions)**

**Note: All Questions are compulsory: -**

**[3X4=12]**

S. No.	Question	Marks Allotted
17	Differentiate between the following: i. ETL and EIL ii. Emulsifiable concentrate and Flowable	4
18	Explain semiochemicals in brief.	4
19	Define insect ecology, ecosystem, biotic potential and environmental resistance. How study of ecology is related to insect pest management?	4

**SECTION-D**  
**(Long Answer Type Questions)**

**Note: All Questions are compulsory: -**

**[3X6=18]**

<b>S. No.</b>	<b>Question</b>	<b>Marks Allotted</b>
20	Describe the concept of IPM along with its benefits and what are major constraints in IPM implementation.	6
21	Write short note on the use of following methods in IPM: a) Gamma radiastion b) Attractant c) Antifeedant	6
22	Enlist various abiotic factors affecting the distribution and abundance of insect-pests. Summarize the influence of humidity and rainfall on insects.  Or  Write about various types of power operated sprayers and dusters.	6