

Roll No.: .....

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

Faculty/College of Study:	Agricultural Sciences	Year/Semester:	2 <sup>nd</sup> Semester
Program:	M.Sc. Agriculture (Plant Pathology)	Duration:	02:00 Hrs.
Course/Subject:	Biological Control of Crop Pests and Weeds	Maximum Marks:	40
Course/Subject Code:	11060217	Batch:	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: -****[10X1=10]**

S. No.	Question	Marks Allotted
1	Define Entomopathogenic nematode?	1
2	Differentiate between predator and parasitoid?	1
3	Classical example of importation of biological control?	1
4	Differentiate between ETL and EIL?	1
5	Define quarantine in insect pest with example?	1
6	Define "push and pull technology" in biocontrol?	1
7	Define natural enemy of pest with example?	1
8	Define pheromones?	1
9	What is tricho-card?	1
10	Define BT toxin?	1

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

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

**[3X2=6]**

S. No.	Question	Marks Allotted
11	Explain Allelochemicals and its types?	2
12	Write short note on mode of action of Entomopathogenic virus?	2
13	Explain augmentative biocontrol of insects with example?	2

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

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

**[3X4=12]**

S. No.	Question	Marks Allotted
14	What are semiochemicals? Explain different type of semiochemicals involved in insect communication?	4
15	Explain biological control of weeds by insects?	4
16	What are the constraints in commercialization of bio-control agents of insect pest?	4

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

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

**[2X6=12]**

<b>S. No.</b>	<b>Question</b>	<b>Marks Allotted</b>
17	What are the steps involved in implementation of classical biological control?	6
18	Explain mass production techniques of bio-control agent with all steps involved?	6