

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:	Agricultural Microbiology	Maximum Marks:	40
Course/Subject Code:	17010210 11010202	Batch:	2018 2019

**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	Define Biogas	1
2	Define Prokaryotes	1
3	Define the term Biodegradation.	1
4	Father of Microbiology	1
5	What are microbial pesticides?	1
6	What is Rhizosphere?	1
7	Define Mycorrhiza	1
8	Define biopesticides	1
9	Define plasmid	1
10	What is function of microscope?	1
11	Define Phyllosphere	1
12	What is biofertilizers?	1

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

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

**[4X2=8]**

S. No.	Question	Marks Allotted
13	Explain reproduction of bacteria.	2
14	Distinguish between symbiotic and non-symbiotic nitrogen fixation?	2
15	Describe the role of microbes in composting.	2
16	How are microbes useful in soil fertility and crop production?	2

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

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

**[2X4=8]**

S. No.	Question	Marks Allotted
17	Define bacteria. Give its general characteristics with diagram.	4
18	What is the scope of microbiology in Agriculture.	4

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

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

**[2X6=12]**

S. No.	Question	Marks Allotted
19	Differentiate between prokaryotes and eukaryotes with examples.	6
20	Describe the nitrogen cycle with diagrams.	6