

Roll No.:

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

Faculty/College of Study:	Agricultural Sciences	Year/Semester:	2nd Semester
Program:	B.Sc. (Hons.) Agriculture	Duration:	03:00 Hrs.
Course/Subject:	Agricultural Microbiology	Maximum Marks:	50
Course/Subject Code:	11010202	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	Thermophiles	1
2	Autotrophic Bacteria	1
3	Cell Wall	1
4	Chemoautotroph - Example	1
5	Exponential Growth Curve	1
6	Donor cell	1
7	Bacteriophage	1
8	Rhizosphere	1
9	Leghaemoglobin	1
10	Nitrogenous Biofertilizer - Example	1
11	BGA – Full Form	1
12	Mitochondria	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8]

S. No.	Question	Marks Allotted
13	What is carbon sequestration?	2
14	Explain Ammonification.	2
15	Mention the steps involved in Sulphur cycle	2
16	What are transposons? Give example.	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[3X4=12]

S. No.	Question	Marks Allotted
17	Define BNF. Explain the types of BNF with example.	4
18	Differentiate between prokaryotic and eukaryotic microorganisms with example.	4
19	Discuss the four stages of bacterial growth curve with example.	4

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[3X6=18]

S. No.	Question	Marks Allotted
20	What is biofuel? Explain its production from agricultural waste, in detail.	6
21	Discuss the role of microorganisms in soil fertility and crop production.	6
22	Define genetic recombination. Name different methods of recombination. Explain any one in detail.	6