

Roll No.: .....

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

<b>Faculty/College of Study:</b>	<b>Agricultural Sciences</b>	<b>Year/Semester:</b>	<b>2<sup>nd</sup> Semester</b>
<b>Program:</b>	<b>M.Sc. Agriculture (Agronomy)</b>	<b>Duration:</b>	<b>02:00 Hrs.</b>
<b>Course/Subject:</b>	<b>Principles and Practices of Water Management</b>	<b>Maximum Marks:</b>	<b>40</b>
<b>Course/Subject Code:</b>	<b>11060210</b>	<b>Batch:</b>	<b>2021</b>

**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]**

<b>S. No.</b>	<b>Question</b>	<b>Marks Allotted</b>
1	Write down the only name of water Resources in India	1
2	What is infiltration rate.	1
3	What is percolation	1
4	What is Hygroscopic water	1
5	What is Capillary water	1
6	Define Gravitational water	1
7	What is Field capacity	1
8	What is Permanent wilting percentage	1
9	What is Seepage	1
10	Write down the Moisture extraction pattern	1
11	What is Crop water Requirement	1
12	Define Drainage	1

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

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

**[4X2=8]**

S. No.	Question	Marks Allotted
13	Differentiate between transpiration and evaporation	2
14	Define irrigation and its objectives	2
15	Write the importance of water management	2
16	Write the short note on active water absorption.	2

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

**Note: Attempt Any Two (02) Questions: -**

**[2X4=8]**

S. No.	Question	Marks Allotted
17	Define crop water use efficiency and explain different types of crop water use efficiency.	4
18	Explain briefly micro irrigation system.	4
19	Define saline water and its effect on crop production.	4

## **SECTION-D**

### **(Long Answer Type Questions)**

**Note: Attempt Any Two (02) Questions: -**

**[2X6=12]**

<b>S. No.</b>	<b>Question</b>	<b>Marks Allotted</b>
20	How soil, plant and meteorological factors responsible for determining water needs of crops, explain it.	6
21	What is irrigation scheduling and Which irrigation scheduling is best for irrigation application by farmer give the reasons.	6
22	Explain different methods of irrigation.	6