

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**

**Supplementary Semester Examination – Summer 2022**

**Course: B. Tech.**

**Branch: Civil Engineering**

**Semester: VII**

**Subject Code & Name: BTCVC703 Water Resource Engineering**

**Max Marks: 60**

**Date: 22/08/2022**

**Duration: 3.45 Hrs.**

**Instructions to the Students:**

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

	(Level/CO)	Marks
<b>Q. 1 Solve the following questions.</b>		<b>12</b>
A) Explain types of irrigation system.	<b>CO1</b>	<b>06</b>
B) Explain classes of soil water with neat labelled sketches	<b>CO2</b>	<b>06</b>
<b>Q.2 Solve Any Two of the following.</b>		<b>12</b>
A) Explain forces acting on a gravity dam with neat labelled diagram.	<b>CO2</b>	<b>06</b>
B) Explain the various levels in reservoir with suitable diagram.	<b>CO2</b>	<b>06</b>
C) What are the different modes of failure of gravity/ earthen dam?	<b>CO2</b>	<b>06</b>
<b>Q. 3 Solve Any Two of the following.</b>		<b>12</b>
A) What do you mean by spillways? Why are spillways provided in dams? Enlist the types of spillways.	<b>CO2</b>	<b>06</b>
B) Explain cross drainage works in detail.	<b>CO2</b>	<b>06</b>
C) Why should lining be provided in canals? What are the merits and demerits of canal lining?	<b>CO2</b>	<b>06</b>
<b>Q.4 Solve Any Two of the following.</b>		<b>12</b>
A) Explain various forms of precipitation.	<b>CO1</b>	<b>06</b>
B) Define the following terms: 1. Specific yield 2. Unit Hydrograph 3. Aquicludes	<b>CO1</b>	<b>06</b>
C) What are the comparative advantages of well and canal irrigation?	<b>CO 2</b>	<b>06</b>
<b>Q. 5 Solve the following questions.</b>		<b>12</b>
A) How to reclaim the water-logged alkaline sands.	<b>CO 1</b>	<b>06</b>
B) What are the preventive and curative measures of water logging?	<b>CO1</b>	<b>06</b>

**\*\*\* End \*\*\***