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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2022

Subj	Subject Code:3151311 Date:04-01-2		
_	e:10	Name:Groundwater Hydrology and Contamination :30 AM TO 01:00 PM Total Marks:'	70
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)	Differentiate between Groundwater and Surface water.	03 04 07
Q.2	(a) (b) (c)	Differentiate between Confined and Unconfined aquifer. Discuss hydrologic properties of water bearing strata. OR	03 04 07
Q.3	(c) (a) (b) (c)	Explain with neat sketch vertical distribution Groundwater. Derive equation for steady radial flow in unconfined aquifer.	07 03 04 07
Q.3	(a) (b) (c)	Write down assumptions made in dupuit's theory	03 04 07
Q.4	(a) (b) (c)	Describe cone of depression.	03 04 07
Q.4	(a) (b) (c)	What is Groundwater Conservation? Write a note on seepage from Surface water.	03 04 07
Q.5	(a) (b) (c)	Explain interference among wells.	03 04 07
Q.5	(a) (b) (c)	What do you mean by Artificial recharge? Describe sampling and monitoring methods for Groundwater.	03 04 07
