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GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV(NEW) EXAMINATION – WINTER 2022				
Subject Code:3141309 Date:14-12				
Subject Name:Fundamentals of Wastewater Quality Time:10:30 AM TO 01:00 PM Instructions: Total Mai		rks: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.	MARKS	
Q.1	(a) (b) (c)		03 04 07	
Q.2	(a) (b) (c)	Define the following terms (i) Catalysis (ii) adsorption (iii) osmosis (iv) dialysis	03 04 07	
	(c)	OR Write a short note on Binary Mixture.	07	
Q.3	(a)	Define the following terms (i) Enzymes (ii) Cofactors (iii) Mineralization	03	
	(b) (c)	• •	04 07	
Q.3	(a) (b) (c)	Define the following terms (i) Smoke (ii) Foams (iii) Fog	03 04 07	
Q.4	(a)	State the role of following chemical in the determination of DO. (i) NaN ₃ (ii) Na ₂ S ₂ O ₃ (iii) MnSO ₄	03	
	(b) (c)		04 07	
Q.4	(a)	_	03	
	(b)	State the significance of a high sulfate concentration in water supply system and in wastewater disposal.	04	
	(c)	Explain dilution method to determine BOD of wastewater.	07	
Q.5	(a) (b) (c)	Explain the "Smothering" action when wastewater contain high amount of grease.	03 04 07	
		content in wastewater.		

(b) Define volatile acid. Enlist the methods used to determine volatile acids

Q.5 (a) Enlist the applications of volatile acid data.

and explain any one in brief.

03

04

(c) Enlist and explain environmental significance of nitrogen spices in detail.

07