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Som
Roll No. 2422/EN/39

VIIth - SEMESTER

B.Tech.(Env. Engg.)

MID-TERM EXAMINATION

September-2024

EN-301 Waste Water Engineering: Design and Applications

Duration: 1:30 Hours

Maximum Marks: 20

Note: All questions are compulsory. Assume suitable missing data, if any.		Marks	CO
Q1 Q.1	Design the screen for a sewage treatment plant treating a peak flow of 75 million litres per day of sewage.	4	CO2, CO4
Q2	Describe the merits and demerits of coagulation process in sewage treatment.	4	CO1
Q3	Design a single stage trickling filter for a loading of 11000kg of BOD in a raw sewage per hectare metre & the recirculation ratio is 1. If it is to treat a raw flow of 4ML/d of sewage having BOD of 250mg/l.	5	CO4, CO5
Q4	Explain the following terms:- (i) Oxidation Pond. (ii) Primary sedimentation tank	4	CO4
Q5 Q.6	Design a suitable circular settling tank for a primary treatment of sewage @ 10 million litres per day from a city. The surface loading is 50,000l/m ² /d.	3	CO2