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Roll No.

IVth - SEMESTER

B.Tech. (Env. Engg.)

MID-TERM EXAMINATION

March-2025

EN-206n Wastewater Engineering: Design and Applications

Duration: 1:30 Hours

Maximum Marks: 20

Note : Attempt all the questions.
Assume suitable missing data, if any.

Q 1 Design the septic tank for a small colony having the following data :

No. of People = 200
Sewage/head/day = 230 litres
Length : width = 3 : 1
Depth of tank = 1.5 m
De sludge period = 1 year
Detention period = 24 hrs

Design dimension
Length 10.2
width 3.4
depth 1.8

[5][CO2. CO3][L3]

Q 2 Briefly discuss the oxidation pond.

[3][CO2][L2]

Q 3 Design a rectangular sedimentation tank for treating the sewage from a apartment in South Delhi having population of 5000. The apartment is provided water supply from MCD with maximum daily water demand of 10 million litres per person per day

[5][CO1][L6]

Q 4 Explain the following:-

- (a) Grit chamber
- (b) Screen

[4][CO1][L2]

Q 5 Classify the types of high rate trickling filters.

[3][CO5][L4]

An. this take demand as 150 lpcd instead of 10 Mlpcd