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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T2 - EXAMINATION (October - 2018)

B.Tech. (IX-SEM)

COURSE CODE: 10B11CE613

MAX. MARKS: 25

Dr. Lishi Rawa

COURSE NAME: Sewage Treatment and Disposal

COURSE CREDIT: 3

MAX. TIME: 1.5 HRS

Note: Attempt all questions. Assume suitable data if required. Carrying of mobile phone during examinations will be treated as case of unfair means

- .. Determine the 1 day BOD and ultimate BOD for a wastewater sample who's BOD₅ at 20°C is 250 mg/l. Also determine the BOD₅ values at 30°C (1+1+1) (CO-3)
- 2. With neat sketch, if appropriate explain the procedure for layout of sewer pipes in ground (3) (CO-2)
- 3. A 1000 mm diameter concrete pipe has a slope of 1.0% and the flow is 1.5 m³/s. If the BOD₅ is 350 mg/L, determine the potential for sulfide generation when the wastewater temperature is 35°C (4) (CO-3 &4)
- 4. Write a note on the following:
 - (a) Disposal by dilution
 - (b) Self-Purification of Natural Streams
 - (c) Zones of Pollution in River Stream (CO-3)

(2+2+2)

5. What is stratification of lakes?

(4) (CO-3)

6. Discuss methods of applying sewage effluents to farms?

(5) (CO-4)