

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-B.Tech 5th Semester (CE)

COURSE CODE (CREDITS): 18B11CE512 (3)

MAX. MARKS: 15

COURSE NAME: Sewage Treatment and Disposal

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q. No	Question		CO	Marks
Q1	Differentiate between: (a) Domestic sewage, Industrial Sewage and Sanitary Sewage; (b) Combined sewage and separate sewage		CO-1	4 Marks
Q2	The population data for a town is given below. Find out the population for next 3 decades using arithmetic method, incremental increase method and and decrease rate of growth methods respectively:		CO-1	3 Marks
		opulation		
	1930	25,550		
	1940	75,283		
	1950	90,000		
	1960	145,000		
		200,000		
Q3.	A 90 cm dia sewer having an invert slope of 1 in 150 was flowing full. What would be the velocity of flow and discharge. Use n=0.014.		CO-2	2 Marks
Q4.	Draw a neat sketch of a drop man hole and indicate where it is used?		CO-2	2 Marks
Q5	A main combined sewer was designed to serve an area of 95 sq.km with an average population of 266 persons/ hectare. The average rate of sewage flow is 550 litres/capita/day. The maximum flow is 50% in excess of the average together with the rainfall equivalent of 12mm in 24 hours, all of which are run off. What should be the capacity of the sewer in cu.m/sec?		CO-2	4 Marks