



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations – March 2026

Date: 12- 03-2026

Time: 02:00pm – 03:30pm

School: SOE	Program: B.TECH		
Course Code : CIV3035	Course Name: Wastewater treatment and Disposal systems		
Semester: VI	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05
Marks	25	25			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	The sewer pipes carry sewage as gravity conduits, and are therefore laid at a continuous gradient in the downward direction up to the outfall point, from where it will be lifted up, treated and disposed of. List the important factors considered for selecting material for sewer.	2 Marks	L1	C01
2	All forms of liquid waste produced by the community is sewage. It includes domestic wastewater, industrial wastewater and storm water. In relation to this define sullage.	2 Marks	L1	C01
3	For safe disposal of the sewage generated from a locality efficient collection, conveyance, adequate treatment and proper disposal of treated sewage is necessary. To achieve this, what all conditions should be satisfied?	2 Marks	L1	C01
4	Write the objectives of sanitary engineering.	2 Marks	L1	C01
5	Sewer is used for carrying waste water and human waste away from buildings to a place where they can be safely got rid of. List the various shapes of sewer.	2 Marks	L1	C01

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Sketch food curve and BOD curve.	10 Marks	L2	C02
Or					
7.	a.	Explain the purpose of BOD test.	10 Marks	L2	C02

8.	a.	<p>A BOD test conducted on a 12ml sample gave the following results.</p> <p>a. DO of aerated water used for dilution= 4.9mg/l</p> <p>b. DO of original sample= 0.9 mg/l</p> <p>c. DO of diluted sample after 5 day incubation= 1.2mg/l.</p> <p>Take Deoxygenation constant at test temperature as 0.12.</p> <p>Calculate its: 1) 5day BOD and 2) Ultimate BOD</p>	15 Marks	L3	C02
Or					
9.	a.	Sewage contains complex compounds derived from urine, feaces, inorganic chemicals etc. Illustrate any three chemical characteristics of sewage.	15 Marks	L3	C02

10.	a.	<p>Man holes are the openings of either circular or rectangular in shape constructed on the alignment a person to enter the sewer for inspection, cleaning and flushing. Sketch the manhole and articulate types of manhole.</p>	15 Marks	L3	C01
Or					
11.	a.	Sanitary engineering is the application of engineering methods to improve sanitation of human communities, primarily by providing the removal and disposal of human waste. Illustrate the different types of sewerage systems.	15 Marks	L3	C01