Unit II

Roll No	Total Pages: 03
BT-7/D-19	37047
SEWERAGE & SEWAGE TRE	ATMENT
CE-407E	
52	
Time : Three Hours] [Maxir	num Marks : 100
Note: Attempt Five questions in all, selec	ting at least one
question from each Unit.	
•	
Unit I	
1. (a) Explain the three types of Sewer	age System with
their advantages and disadvantages. 10	
(b) Narate the importance of Sanitation and its role in	
making people healthy.	
2. (a) Explain the following formulae a	sed in designing
of sewerage system:	
(i) Kutter's Formula	•
(ii) Bazin's Formula	
(iii) Manning's Formula	
(iv) William-Hazen's Formula	15
(v) Chezy's Formula	
(b) What is HMD ? Calculate HMD	in circular sewer
running full and partially full.	
(2-38/7) L-37047	P.T.O.

3.		Writ	e in detail about:
		(a)	Total Solids
		(b)	Chemical Oxyger
		(c)	Dissolved Oxyger
		(d)	Oil and Grease.
	4.	(a)	Write the standar
			industrial effluent
ᅪ			(i) BOD
ttp:			(iii) pH value
/w		(b)	How BOD Test is
ww.k			Test in detail.
http://www.kuonline.in			τ
e.in	5.	(a)	Explain types of
			one process in ea
		(b)	Give the constru
			filters with neat
	6.	(a)	Write about the c
	6.	(a)	Write about the c
	6.	(a) (b)	
	6.	.,	Tank. Define activated
	6.	.,	Tank.

http://www.kuonline.in

Total Solids (a) Chemical Oxygen Demand Dissolved Oxygen Oil and Grease. 20 Write the standards for discharge of sewage and industrial effluents in Water Source : 10 BOD Temperature (iii) pH value (iv) Lyanides How BOD Test is performed? Explain about BOD, Test in detail. 10 **Unit III** Explain types of treatment processes in detail with one process in each type. 10 Give the construction and operation of trickling filters with neat diagram. 10 Write about the construction and working of Septic Tank. 10 Define activated sludge process. Explain operation of activated shedge process with the help of flowsheet. 10 L-37047 2

Unit IV

7. (a) What are the zones of pollutions in a river stream?

- (b) What is Sewage Sickness? Write the preventive measures to restrict sewage sickness. 10
- 8. Write short notes on the following:
 - (a) Sewage Farming
- (b) Dillution and Dispersion
- (c) Sedimentation
- (d) Reduction.

20

http://www.kuonline.in

http://www.kuonline.in Whatsapp @ 9300930012 Send your old paper & get 10/-अपने पुराने पेपर्स क्षेत्रं और 10 रुपये पार्ये, Paytm or Google Pay से

2,200