Vivekananda College of Engineering & Technology, Puttur [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]

Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08

Rev 1.10

«Civil»

<30-11-2020»

CONTINUOUS INTERNAL EVALUATION-2

Dept: Civil Engg	Sem / Div: 5	Sub: MWWE	S Code: 18CV55
Date:03-12-2020	Time: 9:30-11:00 am	Max Marks: 50	Elective: N

Q N	Questions	Marks	RBT	COs
	PARTA		L	
respect to	in detail the process deoxygenation and reoxygenation with o self-purification of natural waters with a neat sketch	10	L1	CO3
b Draw the flow diagram of municipal wastewater treatment and high- light the important operation		10	L2	CO3
c Explain a	a) Sewage farming b) Sewage Sickness	5	Li	CO3
	OR			
treatment		12	L2	CO3
m3/sec had per day. The culate the	saturated with D.O., has a flow of 1.2 m3/sec, BOD of 4 mg/L constant of 0.3 per day. It receives an effluent discharge of 0.25 aving BOD of 20 mg/L, D.O. 5 mg/L and rate constant 0.13 The average velocity of flow of the stream is 0.18 m/sec. Cal-D.O. deficit at point 20 kms and 40 kms downstream. Assume crature as 20oC, throughout and BOD is measured at 5 days. tration D.O. at 20'C as 9.17 mg/L.	13	L3	C03
	PART B			5-31-3
3 a Give the of filters.	comparison between conventional and high rate trickling	10	L2	CO4
b Design a rectangular sedimentation tank for a population of 90 thousand with rate of water supply 140 litres per capacity per day,80% of which reaches the treatment plant. Assume peak factor as 1.2 and horizontal velocity of flow 0.3 m/minute. Check for overflow rate.		10	L3	CO3
sewage pr the discha	ge of a town is to be discharged into a river. The quantity of roduced per day is 8 million liters and its BOD is 250 mg/l. If arge in the river is 200 l/s and if its BOD is 6mg/l, find the the diluted water.	5	L2	CO3
1 1	OR			
ALC: A CONTRACT OF THE PARTY OF	problems encountered in the operation of trickling filter.	5	L2	CO4
i. Qu ii. BO	antity of settled sewage = 6 MLD DD of sewage = 200 mg/l te of organic loading = 200 gm/m3/day Rate of surface load-	10	L3	CO2
for a flow	ircular settling tank for primary treatment of domestic sewage of 42 MLD. Assume suitable values of hydraulic retention urface loading rate.	10	L3	CO1

Prepared by: Prashantha

HOD CONSTRUCT