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»

<30-06-2022>

CONTINUOUS INTERNAL EVALUATION- 1

Dept: Civil Engg Sem / Div: 4 Sub: WS&TE S Code: 18CV46

Date:06-07-2022 Time: 3:00-4:30 pm Max Marks: 50 Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

Q	Questions					Marks	RBT	COs	
PART A									
1 2	Explain the importance and necessity for protected water supply						5	L1	CO1
h	Explain briefly	xplain briefly different types of water demand.						L1	CO1
	The following population data are available for a town. Estimate the probable population in the year 2031 by geometrical and incremental increase methods.						10	L3	CO1
	Year	1971	1981	1991	2001			1333	
	Population	80000	120000	168000	228000				
	OR								
	What is meant by per capita demand? List and discuss the factors that affect per capita demand.						10	L1	CO1
b	The population of a city in three consecutive years i.e., 1991, 2001, 2011 is 80,000, 2,50,000 and 4,80,000 respectively. Determine saturation population, the equation of logistic curve and expected population in 2021.						10	L3	CO1
C	Make the list of population forecasting methods and explain in detail comparative graphical method.						5	L1	CO1
		PART B							
3 a	Write a neat flow diagram of municipal water treatment plant with the significance of each units.						10	L2	CO2
l	What is Sampling? Briefly explain different types of sampling.						5	L3	CO2
	Distinguish between infiltration gallery and infiltration well.						10	L2	CO2
		OR							1000
4 8		What is intake works and their types and factors affecting the selection and location of a suitable site for intake works construction.					10	L2	CO2
1	Explain the significance with respect to quality of water. I) turbidity is hardness iii) fluoride iv) nitrate Write note on water borne diseases and their control.						10	L3	CO2
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