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	Heg. No. : : : : : : : : : : : : : : : : : : :
TEST TO Ques	tion Paper Code: 50618
B.E./B.Tech.	DEGREE EXAMINATIONS, APRIL/MAY 2023.
notes inners had reter	Fourth/Fifth Semester Civil Engineering (d)
(13)	
	491 — WATER SUPPLY ENGINEERING
(C	ommon to Environmental Engineering)
Time: Three hours	(Regulations 2017) Maximum: 100 marks
Time. Tiffee flours	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1. Define 'Per Capita	Demand'.
2. Distinguish 'Accesstandards.	ptable value' and 'Permissible value' in drinking water
3. List any four facto	rs governing the location of the intake.
4. Define 'Scouring V	
5. Define 'Stoke's law	P. 1(1
6. List any four types	s of chlorination.
7. Distinguish 'Absor	rptions and Adsorption'.
8. Brief about MBR I	process.
9. Recall the water p	ressure to be made available at the house service connection.
10. List any four pipe	fixtures and fittings used in buildings.

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	DART B (5 v. 12 - 65
	PART B — (5 × 13 = 65 marks)
11. (a	Calculate the water requirement at the 60 th year for a city having growth following logistic curve with the following data. Population at t=0 year is 35000, Population at the 20 th year = 180000, Population at the 40 th year is = 340000. Assume per capita water requirement as per CPHEEO
	standards. A JDBA ZAGITAZIMA ZA HARONO ASTERIA H
	or hadring
(b	Explain the important characteristics of surface water and ground water. (13)
12. (a	Describe the function of intake structure, and construction of any two intakes. (13)
	Or
(b)	Illustrate the types of water distribution networks and its suitability with a neat sketch. (13)
13. (a)	By applying the principle of sedimentation calculate the detention time, average flow velocity and overflow rate of a sedimentation tank having a size of 5m wide, 16m long, 3m water depth. (13)
	Discussion 'Acceptable value' or Orememble value' in drinking
(b)	Compare and contrast 'slow sand' and 'rapid sand filter'. (13)
14. (a)	Discuss the types of hardness and describe any two technology used to remove hardness. (13)
	Or
(h	TELEPHONE MALE STATE OF THE COLOR OF THE COL
(b	removal. (13)
15. (a	
	components. (13)
	Or
(b	Explain the systems and types of plumbing. (13)
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