Question Paper Code: 4	10818
B.E./B.Tech. DEGREE EXAMINATION, AP Sixth Semester Civil Engineering CE 6605 – ENVIRONMENTAL ENGINE (Regulations 2013)	
Time: Three Hours	Maximum: 100 Marks
Assume suitable data if found neces Answer ALL questions.	sary.
PART – A	(10×2=20 Marks)
1. How do you classify the sewage?	
2. What is effluent standard?	
3. State the objective of providing sewerage works.	
4. What do you understand by self cleaning velocity?	
5. Write the significances of grey water harvesting.	
6. Why grit chamber is provided in sewage treatment pr	ocess?
7. Define the term activated sludge.	
8. Write short note on UASB.	
9. Enlist methods of treated sewage effluent disposal.	
10. Give out the advantages of sludge thickening.	
PART – B	(5×13=65 Marks)
11. a) i) Briefly explain the sources of waste water generation	ation. (8)
ii) Give an account of factors affecting the quantity	
(OR)	
b) Determine designed discharge for a combined syst 50000 with rate of water supply of 135 LPCD. The hectares and the average coefficient of runoff is 0.60. for the design rainfall is 30 min and the relation between and duration is $I = 1000/(t + 20)$.	ne catchment area is 100 The time of concentration

