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Coo	le No: 126AA JAWAHARLAL NEHRU TECHNOLO B. Tech III Year II Semester ENVIRONMENTA (Civil Engle: 3 hours	· Examinations, April L ENGINEERING	TY HYDERABA - 2018		
Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.					
AG	A PART	ra AG	<u>(25 N</u>	Marks)	_
1.a) b) c) d) e) f) g) h) i)	What is an aquifer. Explain water demand for fire. Explain troubles in operation of filters. Explain jar test in brief. What is meant by grey water? Explain what is BOD. Give waste water characteristics. What is meant by sewage sickness? What is meant by bulking of sludge? What is aerobic and anaerobic sludge dig		AG	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	<u> </u>
AG	AG AG PART		\triangle \bigcirc (50 N	(larks)	A
2.a) b)	Describe the water demand for various particles demand. Explain different sources of water.	ourposes. What are the	factors affecting	water [5+5]	
3. 4.a)	Discuss in detail different water quality posterior of the construction of the constru	arameters and their testi	/-\ \	[10] ctions	<u> </u>
b)	Describe equivalent pipe method in detail OR			[5+5]	
5.a) b) 6.	Discuss different types of layouts of water Explain the theory and working of a rapid Discuss in detail sewer appurtenances along	gravity filter with neat	\bigwedge		A
7.a)	OR Explain different systems of plumbing.			[10]	
	A 20cm diameter sewer with an invert slevelocity and the rate of flow in the sewer rate of flow, when the sewer is running ha	Is it self cleaning. Fine	ing full. Calcula d also the velocit	te the y and [5+3]	A

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What is the purpose of preliminary treatment of sewage? Write a brief note on the 8.a) various units employed for the same. How are grit and screenings disposed off? b) With a neat sketch explain ASP. OR. Explain the principle and working of a trickling filter with neat sketch. 9.a) What is the purpose of preliminary treatment of sewage? Write a brief note on the various units employed for the same. How are grit and screenings disposed off? [5+5] 10.a) Write about soak pit and oxidation ditch. Explain different methods of sludge disposal. [5+5]11.a) Explain the design and construction of oxidation pond. b) What is sludge digestion? What are the factors affecting it? ---ooOoo---