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Code: 15CE-42T

IV Semester Diploma Examination, April/May-2017

SANITARY ENGINEERING

Tim	Marks : 100				
Note	 (i) Answer any six questions from Part-A. Each question carries 5 mark (ii) Answer any seven questions from Part-B. Each question carries 10 m 				
	PART – A				
1.	Define Sewer, Invert, Refuse, Sullage & Sewage.	5			
2.	. Explain merits and demerits of Separate system.				
3.	. Write a note on Physical test of sewage.				
4.	Define Sanitary Sewage and list the factors affecting sanitary sewage.	5			
5.	Write the object of sewage treatment.				
6.	Write the advantage and disadvantage of sewage disposal on land.				
7.	Explain the requirements of Good water closet.	5			
8.	Explain the causes of Air pollution.	5			
9.	Explain the effects of Noise on human life.	5			
	PART- B				
10.	(a) Compare conservancy and water carriage system.	5			
	(b) Determine the diameter of a circular sewer to carry sewage of 120 lt/s				
	flow is half full with a slope of 1 in 200 using Manning's 1 Take N = 0.01.	formula. 5			
	1 of 2	Turn over			

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11.	Wri	te the significance of the following terms in sewage analysis:	10
	(a)	BOD	
	(b)	COD	
	(c)	pH value	
	(d)	Dissolved oxygen	
	(e)	Chlorides ·	
12.	. With a neat sketch explain Deep Manhole.		10
13.	Wit	h a neat sketch explain construction and working of septic tank.	10
14.	Wit	h the help of flow diagram explain Activated sludge process.	10
15.	Wit	h a neat sketch explain sludge digestion tank.	10
16.	Exp	lain with sketches:	10
	(a)	Floor traps	
	(b)	Gully traps	
17.	Wit	h a sketch explain electrostatic precipitator.	10
18.	Exp	lain inspection & maintenance of house drainage system.	10
19.	Exp	lain principles and requirement of Building drainage.	10