

c16-c-**503**

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BOARD DIPLOMA EXAMINATION, (C-16)

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ОСТ	T/NOV—2018	D. B.		
DCE—FIFTH SEMESTER EXAMINATION				
OCT/NOV—2018 DCE—FIFTH SEMESTER EXAMINATION CHAPTER INC. ENVIRONMENTAL ENGINEERING				
Time: 3 hours]	178	Total Marks : 80		
	PART—A	3×10=30		
Instructions: (1) Answer all questions.				
(2) Each question carries three marks.				
(3) Answers should be brief and straight to the point and shall not exceed <i>five</i> simple sentences.				
1. State three objectives of	a water supply scheme.	3		
2. Define (a) aquiciude, and	d <i>(b)</i> aquifer.	1½+1½		
3. Define sedimentation.		3		
4. State the need for labora	atory tests of water.	3		
5. List the methods of chlo	orination.	3		
6. What is the function of	sluice valve? Draw the s	ketch. 1+2		
7. Define the terms (a) sew	vage, (b) refuse, and (c) g	arbage. 3		
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8.	Draw a sketch of basket handle type sewer.	3
9.	List any three objects of treatment of sewage.	3
10.	Define (a) soil pipe, (b) waste pipe, and (c) vent pipe.	3
	PART—B	Q ≚50
Inst	ructions: (1) Answer any five questions. (2) Each question carries ten marks.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the criter for valuation is the content but not the length of answer.	
	answer.	
11.	Explain canal intake with a neat sketch.	5+5
12.	Explain the construction and operation of slow sand filter.	10
13.	Explain the 'dead end system' with a sketch and list out the advantages and disadvantages.	10
14.	(a) State the factors affecting dry weather flow.	
	(b) State the requirements of good surface drains.	
15.	Explain various operations involved in laying of sewers.	10
16.	Design a septic tank for a hostel of 200 students with a water supply of 100 lpcd.	10
17.	Explain the construction and working of trickling filter with the help of a sketch.	10
18.	State the requirements of good drainage is buildings.	10

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