

6622

BOARD DIPLOMA EXAMINATION, (C-16) NOVEMBER—2020 DCE—FIFTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING

Time	e: 3 hours] [To	otal Marks: 80	
	PART—A	3×10=30	
Instructions: (1) Answer all questions.			
	(2) Each question carries three marks.		
	(3) Answers should be brief and straig and shall not exceed <i>five</i> simple se	-	
1.	List any six factors affecting per capita demand.	3	
2.	Define spring. State the types of springs.	1+2=3	
3.	State any three objectives of filtration.	3	
4.	Define the following:	1½+1½=3	
	(a) E-coli Index		
	(b) Most probable number		
5.	State three requirements of a good coagulant.	3	
6.	Define the following:	3	
	(a) Service pipe		
	(b) Communication pipe		
*	(c) Supply pipe		

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7 .	State any three objectives of sewerage works.	3
8.	State functions of a manhole.	3
9.	List any six methods of sludge disposal.	½×6=3
10.	State classification of traps according to shape.	3
	PART—B	10×5=50
Inst	ructions: (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the for valuation are the content but not the 1 the answer.	
11.	Explain with sketches (a) river intake, (b) canal intake.	5+5=10
12.	Explain the construction and operation of rapid sand fi	lter. 10
13.	Explain grid iron system of distributions stating advanta and disadvantages with sketch. 2+3-	ages +3+2=10
14.	Explain following sewerage systems:	5+5=10
	(a) Combined system	
	(b) Separate system	
15.	Explain ordinary manhole with a neat sketch.	10
16.	Explain the construction and working of trickling filter value a neat sketch.	with 10
17.	Design a septic tank for a hostel of 500 students with a was supply of 135 lpcd.	ater 10
18.	Explain, with sketches, different types of plumbing syst	em. +3+4=10

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