

C16-C-16S-C-305

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16245-C

BOARD DIPLOMA EXAMINATION, (C-16/C-16S)

MARCH / APRIL - 2019

DCE - III SEMESTER EXAMINATION
ENVIRONMENTAL ENGINEERING-I

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=30

- Instructions : (1) Answer **ALL** questions.
(2) Each question carries **THREE** marks.
(3) Answer should be brief and straight to the point.

1. Mention any three ill effects of acid rain. 3
2. Define Ecology and Ecosystem. $1\frac{1}{2} + 1\frac{1}{2}$
3. List the objectives of protected water supply scheme. 3
4. List any three variations in the rate of demand. 3
5. Give any three merits and demerits of plastic pipes. 3
6. Define :
(i) Aquifer 1
(ii) Aquiclude 1
(iii) Ground water table 1

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7. State any three objectives of treatment of water. 3
8. Define : $1\frac{1}{2} + 1\frac{1}{2}$
(a) E-coli index method
(b) Most probable number
9. List any six pipe appurtenances in distribution system. 3
10. Write any three precautions to be taken while laying the pipelines. 3

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PART - B

10×5=50

- Instructions : (1) Answer any **FIVE** questions.
(2) Each question carries **TEN** marks.
(3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. What are the factors affecting the per capita demand and explain. 10
12. Explain the construction of infiltration gallery with a neat sketch. 6+4
13. What is an intake structure? Explain reservoir intake with a neat sketch. 2+8
14. Explain construction and working of slow Sand filter with the help of a neat sketch. 6+4
15. List different methods of disinfection? Explain any two methods in detail ? 2+8

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[Contd...

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- 16 List and explain any five types of chlorination. 2+2+2+2+2
- 17 Explain the different lay outs of distribution systems with sketch. 10
- 18 Explain : 5+5
- (a) Gravity and
 - (b) Direct pumping system of distribution with sketches.

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