

1132**Code : 15CE42T***Register
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IV Semester Diploma Examination, April/May-2018**SANITARY ENGINEERING****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (i) Answer any **six** questions from Part – A. Each question carries **5** marks.
(ii) Answer any **seven** questions from Part – B. Each question carries **10** marks.

PART – A

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| 1. Define BOD, MPN, Invert, Sullage and Sewage. | 5 |
| 2. Explain the factors affecting the quantity of Sanitary Sewage. | 5 |
| 3. Discuss the requirement of a Surface drain. | 5 |
| 4. Write a note on salt purification of a stream. | 5 |
| 5. Explain the objectives of building drainage. | 5 |
| 6. List the effects of Air pollution on human beings. | 5 |
| 7. Explain Aerobic lagoons. | 5 |
| 8. What are Noise pollution control measures. | 5 |
| 9. Explain requirement of good water closet. | 5 |

PART - B

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| 10. | (a) What are the objectives of Sewage disposal works. | 5 |
| | (b) Calculate the velocity, discharge for a Sewer running full. The diameter of
Sewer is 150 mm and it is laid at a gradient of 1 in 60.
Assume $N = 0.013$
Use Manning's formula. | 5 |
| 11. | Compare between separate and combined sewage system. | 10 |
| 12. | Explain with sketch the objectives of Grease and oil trap. | 10 |
| 13. | Compare between Standard rate trickling filter and high rate trickling filter. | 10 |
| 14. | Explain with sketch the construction and working of oxidation pond. | 10 |
| 15. | Explain with sketch the construction and working of Trickling filter. | 10 |
| 16. | Explain Global warming and its effects. | 10 |
| 17. | Explain with sketch Drop Man hole. | 10 |
| 18. | Explain with sketch cyclone separation. | 10 |
| 19. | Explain waste water Recycling. | 10 |