

**1056****Code : 15CE42T**Register  
Number

--	--	--	--	--	--	--

**IV Semester Diploma Examination, Nov./Dec. 2017****SANITARY ENGINEERING****Time : 3 Hours ]****[ Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part – A, each question carries **05** marks.  
(ii) Answer any **seven** questions from Part – B, each question carries **10** marks.

**PART – A**

1. Define following terms : 5
  - (a) Sewer
  - (b) Sewerage
  - (c) Invert
  - (d) D.W.F.
  - (e) Garbage
2. Find the diameter of the circular sewer from following data : 5
  - (a) Population – 2.0 Lakhs
  - (b) Rate of Water Supply – 135 LPCD
  - (c) Velocity of flow – 1.0 m/sec
3. Write a note on physical tests on sewage. 5
4. What are the requirements of surface drainage ? 5
5. What are the functions of grit chamber ? 5
6. List the various methods of sludge disposal. 5
7. List any five principles and requirements of Building (House) drainage. 5
8. What are the causes of Air Pollution ? 5
9. List the effect of noise on human life. 5

**PART – B**

- |  |    |
|--|----|
| 10. Explain the Aims and objectives of sewerage work.  | 10 |
| 11. Write the significance of following tests :<br>(a) Solids<br>(b) BOD                                       | 10 |
| 12. Explain with neat sketch the construction of Manhole.  | 10 |
| 13. With neat sketch explain the functioning of Trickling filters.   | 10 |
| 14. Explain oxidation pond with neat sketch.   | 10 |
| 15. Explain sludge digestion tank with neat sketch.  | 10 |
| 16. What are the different types of Traps ? Explain with neat sketch Gully Trap.                               | 10 |
| 17. Explain with neat sketch, showing arrangement of drainage in multistoried building.                        | 10 |
| 18. Write a note on Inspection, testing and Maintenance of Sanitary fittings.                                  | 10 |
| 19. List any five control measures of Air Pollution. Explain with neat sketch the cyclone separator equipment. | 10 |
-