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(**Pages** : 2)

Name.

Reg. No.....

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE [2014 SCHEME] EXAMINATION, APRIL 2018

Civil Engineering

CE 14 801 – ENVIRONMENTAL ENGINEERING-II

Time : Three Hours

Maximum : 100 Marks

Part A

I. Answer any eight questions out of ten :

1. What is meant by Sullage? Compare it with sewage.

2. Define self Cleansing Velocity. What are the importance of it?

3. Explain about Oxidation Pond.

4. What is meant by Bulking of Sludge? How to overcome it?

5. Explain about sludge conditioning.

6. Explain the Conservancy System and Water carriage system.

7. Classify and explain the different types of Grit chamber.

8. Explain the Physical Characteristics of Solid waste.

9. Brief about Composting.

10. Explain about Health problems associated with Air pollution.

$(8 \times 5 = 40 \text{ marks})$

Part B

II. Answer all questions :

11. Illustrate any four sewer appurtenances with neat diagram.

Or

- 12. Estimate the Sewage from town of population 2 lakhs with area of 5000 hectares. The area is divided into Buildings, Roads and Street, Parks and Lawns and open area of 60%, 20%,15% and 5% respectively. Intensity of rainfall is 500 mm /day.
- 13. Explain the working principle Trickling Filter with neat diagram.

Or

14. Compare BOD and COD. Demonstrate the BOD test.

Turn over

- 15. (a) Explain the principles involved in sludge digestion.
 - (b) Explain the sludge dewatering facility.
 - ELENTIN SEMESTER R. TECH, (ENOISTERING) DECREE
- 16. Explain the self purification of stream.
- 17. Explain about the construction and working principle Sanitary landfill.
- 18. Explain in detail about the working principle of Electrostatic Precipitator with neat diagram. $(4 \times 15 = 60 \text{ marks})$

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12 Estimate the Sewage from town of population 5 Ishira with area of 6000 hectores. The area is divided into Relidings, hoadshard Street; Parks and 2 swar, and open area of 60%, 20%, 20%, and 1% respectively. Interact, of packather 665 pm Mark.

14 Compare 200 and COR. Demonstrate the DOP bas.

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