G 1340 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2015

Seventh Semester

Branch : Civil Engineering

ENVIRONMENTAL ENGINEERING—I (C)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. Define per capita demand.
2. Explain in detail about coliforms.
3. What is meant by coagulation ?
4. List out the method of corrosion control in metal pipes. Explain any *one* method.
5. Write a note on minimum velocity in sewers.
6. List out the classification of manholes depends upon its depth. Explain any *one* type.
7. Briefly explain about clean outs in sewer lines.
8. What are the available ventilation methods ?
9. What are the important primary air pollutants ?
10. List out the method of disposal of refuse.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each question carries 12 *marks.*

11. Explain the factors governing the design period.

Or

12. Write short notes on hardness of water and explain its types.
13. What are the types of intake ? Explain any *one* in detail.

Or

14. List out the method of water distribution system? Explain any one method.

Turn over

15. Explain in briefly about Manhole with neat sketch.

Or

16. A 25 cm diameter with an invert slope of 1 in 400 is running full. Calculate the velocity and rate of flow in the sewer. Is it self cleansing ? Take n = 0.015.

17. Explain chemical oxygen demand of sewage in detail .

Or

18. Explain the method of testing the sewer pipes.

19. Explain in detail about primary and secondary air pollutants.

Or

20. Explain sanitary land filling method of solid waste disposal in detail.

(10 × 4 = 40 marks)