

Register Number:

9145

Name of the Candidate:

B.E. DEGREE EXAMINATION, 2012

(CIVIL ENGINEERING)

(FIFTH SEMESTER)

PCLEC-502. ENVIRONMENTAL ENGINEERING-I

(New Regulation)

May]

[Time: 3 Hours

Maximum: 60 Marks

Answer any ONE full Question from each UNIT

(5×12=60)

All questions carry equal marks

UNIT-I

1. a) Why water supply schemes are necessary? (6)
- b) Explain the connection between Public Health and water supply. (6)
2. a) Discuss domestic demand and per capita per day. (6)
- b) What are the methods of forecasting population? (6)

UNIT-II

3. a) Discuss the surface water sources. (6)
- b) What is the use of mass curve analysis? Explain. (6)
4. a) Write short notes on Artesian well and infiltration galleries. (6)
- b) How will you provide sanitary protection of wells? (6)

UNIT-III

5. a) Discuss the advantages and disadvantages of RCC pipes. (6)
- b) What are the precautions to be taken in handling and laying water pipe lines? (6)
6. a) What are the types of joints used in pipe lines? (6)
- b) How will you determine loss of head in pipes? (6)

UNIT-IV

7. a) How will you remove the suspended impurities? (6)

- 8. a) Define sedimentation and flocculation. (6)
- b) Explain the action of alum as a coagulant. (6)

UNIT-V

- 9. a) Discuss intermittent water supply system. (6)
- b) Explain Hardy Cross method of balancing. (6)
- 10. a) How will you detect leakage in water pipe line? (6)
- b) What are the functions of service reservoirs? (6)

