

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE

(AUTONOMOUS)

IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022

ENVIRONMENTAL ENGINEERING

(CE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-AAnswer **all** the questions in Part-A (5X2=10M)

- 1 a) List the names of water borne diseases? [2M]
- b) What are the different types of Intakes? [2M]
- c) List the Physical characteristics of water? [2M]
- d) What is meant by Defluoridation? [2M]
- e) Write any two requirements of a good water meter? [2M]

PART-BAnswer **One Question from each UNIT (5X10=50M)**

UNIT-I

2. Discuss the factors affecting the design period? [10M]

OR

3. Explain about the various types of water demands, in detail? [10M]

UNIT-II

4. Explain about the formation and types of springs with neat sketches? [10M]

OR

5. What are the factors governing the selection of the intake structure? [10M]

UNIT-III

6. Briefly explain about any two chemical characteristics of water? [10M]

OR

7. Write about I.S. drinking water quality standards? [10M]

UNIT-IV

8. Summarize the usage of alum as coagulant to raw water along with its chemical reactions? [10M]

OR

9. Discuss the minor methods of disinfection? [10M]

UNIT-V

10. What are the requirements of a good water distribution System? [10M]

OR

11. Explain about the methods of water distribution system with neat sketches? [10M]
