

No. of Printed Pages : 03

Roll No.

18BB1605

M. Tech. EXAMINATION, May 2019

(Second Semester)

(C Scheme) (Main Only)

ENERGY AND ENVIRONMENTAL
MANAGEMENT

EEM514C

Water and Waste Water Management

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(1-06/20) **M-18BB1605**

P.T.O.

Unit I

1. What is disinfection of water ? Explain the various methods used to disinfect water. **15**
2. What are the different sources of water ? Discuss the harmful effect of various heavy metals present in water. **15**

Unit II

3. Discuss in detail the preliminary treatment of water. **15**
4. What do you understand by filtration ? Explain different types of filtrations along with backwashing processes. **15**

Unit III

5. Write short notes on the following : $2 \times 7\frac{1}{2} = 15$
 - (a) Upflow anaerobic sludge blanket
 - (b) Polishing ponds

6. Discuss the process of sludge digestion. **15**

Unit IV

7. Discuss the removal method for dissolved inorganic substances from water. **15**
8. Explain sludge treatment. **15**