No. of Printed Pages: 2

**BICE-018** 

7

## **B.Tech. CIVIL ENGINEERING (BTCLEVI)**

## **Term-End Examination**

00153

(b)

June, 2018

## **BICE-018: ENVIRONMENTAL ENGINEERING - II**

Maximum Marks: 70 Time: 3 hours Note: Attempt any five questions. All questions carry equal marks. Define Sewer. Explain the necessity of an 1. (a) 7 appropriate sewerage system. between combined **(b)** Differentiate and 7 separate sewerage systems. 2. Write detailed note on various а sewer appurtenances with neat sketches. 14 What do you understand by DO Sag curve? 3. (a) Explain with the help of a well-labelled sketch. 7

BICE-018 1 P.T.O.

polluted stream.

Write a note on the various zones that

develop in a river after the addition of a

| (a)   | Differentiate between trickling filter and activated sludge process.                                    |
|-------|---|
| (b)   | Write short notes on oxidation ditches and aerated lagoons.   |
| (a)   | Differentiate between aerobic and anaerobic treatment of sludge.  |
| (b)   | Explain the UASB technique in detail. 7   |
| (a)   | Discuss the various ways in which we can reuse the treated effluents from a wastewater treatment plant. |
| (b)   | Differentiate between municipal and industrial wastewater.  |
| Write | short notes on each of the following: $4 \times 3 \frac{1}{2} = 14$                                     |
| (a)   | Sewage Pumping  |
| (b)   | Oxidation Pond  |
| (c)   | Common Effluent Treatment Plant   |
| (d)   | Sewer Maintenance   |
|       | <ul> <li>(b)</li> <li>(a)</li> <li>(b)</li> <li>(a)</li> <li>(b)</li> <li>(c)</li> </ul>                |