

Seat No.

MAR_APR 2025 SUMMER EXAMINATION**11731 Bachelor of Technology (NEP-2.0)****Sub. Name: Environmental Engineering-II****Sub. Code: 66877/81517/81794****Day and Date: MAY ,21-05-2025****Total Marks: 70****Time: 02:30 PM To 05:00 PM**

Instructions:

1. All questions are compulsory
2. Assume suitable data wherever necessary and mention it boldly
3. Draw neat labelled diagrams wherever necessary

- Q1) A.** Name two most important parameter used to characterize sewage and describe their Significance. **[5]**
- B.** The BOD₅ of waste water is determined to be 110 mg/l at 30°C. What would the BOD₅ be if the test run at 20°C. Assume the deoxygenating constant k at 20°C is known to be 0.1 per day. **[6]**
- Q2)** Answer any two of the following **[12]**
- a. Write the different types of bar screen and a summary of the design criteria for bar screen. **[6]**
 - b. Explain briefly various operational Problems commonly encountered in ASP and trickling filter. **[6]**
 - c. Describe ASP and give a note on modification in ASP. **[6]**
- Q3)** Answer any two of the following **[12]**
- a. Draw a diagram and briefly write about the working process of the oxidation ditch. **[6]**
 - b. What is a stabilization pond ? Classify the stabilization pond and explain it in brief. **[6]**
 - c. Enlist all Low-cost treatment methods and Explain any one in detail. **[6]**
- Q4)** Answer any two of the following. **[12]**
- a. Explain with a neat sketch of the D.O. Sag curve. **[6]**
 - b. Which activities are involved in the self-purification of the stream? **[6]**
 - c. Write a note on environmental legislation. (MPCB and CPCB standards.) **[6]**

Q5) Answer any two of the following.

- a.** What is solid waste management? Write a note on the source classification of SWM. **[6]**
- b.** Describe the Functional Outline of solid waste management. **[6]**
- c.** Explain with a neat diagram the term incineration. **[6]**

- Q6) A.** Define Air Pollution and write a note on Sources and classification of pollutants. **[6]**
B. Explain the concept and outline of EIA. **[5]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (101) Bachelor of Engineering (66877) Environmental Engineering-II Part 3 SEM 6
- 2] (101) Bachelor of Engineering (81794) Environmental Engineering-II Part 3 SEM 6
- 3] (1154) B.Tech. CBCS (81517) Environmental Engineering-II Part 3 SEM 6