Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

11731 Bachelor of Technology (NEP-2.0)

Sub. Name: Waste Management(CIVIL)

Sub. Code: 119643/115970

Day and Date: Friday ,29-05-2026 **Total Marks: 60**

Time: 10:30 AM To 01:00 PM

Instructions: **1. All questions are compulsory**
2. Draw neat labelled diagrams wherever necessary
3. Figures to the right indicate full marks

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Q1) Solve any 3 questions **[15]**

a. Explain quantitative estimation of wastewater and factors affecting wastewater generation. **[5]**

b. Discuss philosophy of wastewater treatment and explain unit operations and unit processes. **[5]**

c. Explain physical, chemical and biological characteristics of wastewater. **[5]**

d. Describe municipal solid waste collection systems and transportation methods. **[5]**

Q2) Solve any 3 questions **[15]**

a. Explain engineered systems used for mechanical separation of solid waste. **[5]**

b. Discuss incineration and pyrolysis as thermal treatment methods. **[5]**

c. Explain composting and biomethanation processes for biological treatment. **[5]**

d. Discuss site selection criteria for sanitary landfill. **[5]**

Q3) Solve any 3 questions **[15]**

a. Explain categories and segregation of biomedical waste. **[5]**

b. Discuss storage and transportation requirements for biomedical waste. **[5]**

c. Explain common biomedical waste treatment facilities. **[5]**

d. Explain occupational hazards associated with biomedical waste handling. **[5]**

Q4) Solve any 3 questions **[15]**

a. Explain resource recovery potential of E-waste. **[5]**

b. Discuss control measures for E-waste management. **[5]**

c. Explain sources and production of plastic waste. **[5]**

d. Discuss plastic waste management practices in India. **[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] (1154) B.Tech. CBCS (119643) Waste Management(CIVIL) Part 2 SEM 4

2] (11731) Bachelor of Technology (NEP-2.0) (115970) Waste Management(CIVIL) Part 2 SEM 4

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