

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End-Term Examination, December 2024

B.Tech Semester (VII) & BCA Semester (V)

Roll No.....

AS1211: SUSTAINABLE ELECTRONIC WASTE MANAGEMENT Time: 2:30 hours Max. Marks: 35

Instructions to students:

1. Do not write anything other than your roll number on question paper.
 2. Assume suitable data wherever required and mention it clearly.
 3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
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Note: All Questions carry equal marks (05).

Q-1- What are the major environmental and health implications of improper e-waste disposal? CO 1

Q-2- Define E-waste. What are the main sources and factors contributing to the increasing E-waste generation? CO 1

Q-3- Short note on

A- RoHS

B- EPR

Q-4- Discuss the important features of the Hazardous Waste (Management and Handling) Rules 2003. CO2

Q-5- Explain how the hazardous characteristics of e-waste impact its recycling and disposal. What are the environmental risks if hazardous e-waste is improperly handled?. CO3

Q-6—Scenario: A company is expanding its operations and now generates a large volume of e-waste. It needs to establish proper guidelines to ensure that its e-waste is managed responsibly. CO4

Question: Outline the basic guidelines the company should follow to establish an environmentally sound e-waste recycling program. What steps should be included to ensure compliance with environmental regulations?

Q-7- Short Notes on CO 4

A- Landfill

B- Pyrolysis