

JK Lakshmipat University, Jaipur
INSTITUTE OF ENGINEERING & TECHNOLOGY

End-Term Examination, (Regular/Backlog) May 2025

B. Tech, Semester (VI)

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 is the Producer Responsibility organization (PRO), and how does it contribute to better e-waste management? CO3

Q-2- Discuss the key challenges faced by India in implementing an effective e-waste management strategy, and how these can be addressed through a more systematic and scientific approach." CO2

Q-3- Short note on CO2
A- E-waste classification based on origin and types B- Hybrid Technology & 3

Q-4- Discuss the harmful effects of e-waste on health and the environment, and which toxic substances cause these effects? CO1
& 4

Q-5- Describe the key stages involved in a mixed WEEE metal recovery plant. And give a process flow diagram for metal recovery from WEEE. CO3

Q-6- Explain the primary goals of Life Cycle Analysis (LCA) and describe the key phases involved. Additionally, critically evaluate the advantages and disadvantages of conducting an LCA, using relevant examples to support your analysis. CO3

Q-7- Short Notes on. CO4

A- Landfill B- E-Waste recycling process flow diagram