

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -3 EXAMINATIONS- 2023

PhD -I Semester

COURSE CODE (CREDITS): 14M31CE115 (3)

MAX. MARKS: 35

COURSE NAME: Solid Waste Management

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

MAX. TIME: 2 Hours

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.1 Mention the field investigations associated with waste stream assessment?

[3 Marks] (CO-1)

Q.2 Using a neat flow sketch, explain the different components of solid waste management?

[7 Marks] (CO-1&2)

Q.3 Discuss the different recycling processes for metals, glass and plastics? [6 Marks] (CO- 3)

Q.4 Discuss the public and environmental effects of solid waste management? [7 Marks] (CO-4)

Q.5 Explain the factors that affect the selection of "air separation equipment". In this context, with neat sketch critically explain "conventional chute type separator". [6 Marks] (CO-3)

Q.6 In context of leachate formation, explain the following (a) composition and properties, (b) leachate migration, (c) leachate treatment. [6 Marks] (CO-3&4)