

**B.Sc. 6<sup>th</sup> Semester (Honours) Examination, 2021-22**

**ENVIRONMENTAL SCIENCE**

**Course ID: 61817**

**Course Code: SH/ENV/604/DSE-4**

**Course Title: Solid Waste Management**

**Time: 1 hr 15 min.**

**Full Marks: 25**

*The figures in the right hand side margin indicate full marks.  
Candidates are required to give their answers in their own words as far as practicable.*

- 1. Answer any five questions from the followings:** **1 × 5 = 5**
- (a) What do you mean by vermicompost?
  - (b) What is RDF?
  - (c) Define industrial solid waste.
  - (d) Write down the name of two microorganisms which used in anaerobic digestion.
  - (e) What do you mean by fly ash?
  - (f) Write two disadvantages of open dumping.
  - (g) In which year Municipal Solid Waste (Management and Handling) Rules came into force?
  - (h) What is pyrolysis?
- 2. Answer any two questions from the followings:** **5 × 2 = 10**
- (a) What do you mean by Integrated Waste Management?
  - (b) Briefly discuss about 4 'R' techniques of waste management.
  - (c) Write down the impacts of industrial waste on water and air.
  - (d) How groundwater pollution can be controlled?
- 3. Answer any one question from the followings:** **10 × 1 = 10**
- (a) What is mining waste? Write the classification of the biomedical waste. 2+8
  - (b) Give the full form of LCA and E-waste. Briefly discusses the "Cradle to Grave" approach on waste management. 2+8