

SIXTH SEMESTER
MID-SEM EXAMINATION

B.TECH. (ENE)
MARCH - 2019

EN-302 SOLID WASTE MANAGEMENT

Time: 1 Hours 30 minutes

Max. Marks: 20

Note: All the questions are compulsory and carry equal marks
Assume suitable missing data if any

1. a) Define solid waste. Briefly discuss the typical characteristics of Indian solid waste.
b) Differentiate between HHV and LHV.
2. a) Discuss the protocol for collection of representative sample of solid waste.
b) Describe the challenges associated with management of municipal solid waste in India.
3. a) What is proximate analysis? What is its significance in characterisation of waste? Explain.
b) Discuss the protocol for collection of representative sample of solid waste.
4. MSW 'as delivered' has moisture content of 30%. The component analysis has following mass percentages:

Element	Food	Cardboard and paper	Plastic	Leather	Rubber
Mass (%)	46	3.0	0.7	0.43	0.30

Calculate the high heat value of the waste.