Enrolment	Number:	

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.TECH MIDSEM EXAMINATION 7th SEMESTER

ACY -2022-23 (ODD SEM)

Subject Name (Code): Waste to Energy Conversion (203109439) Branch: Mechanical Date: 08-08-2022 Time: 10:30 A.M. to 12:00 P.M. Total Marks: 40 Sr. No. Marks Q.1 (A) One-line Questions 05 1. Write Common energy sources in Indian Villages. 2. Why it is difficult to recycle plastic? 3. Why burning of solid waste is not recommended? 4. Define Waste. 5. Define Biomass. 05 (B) Compulsory Question 1. Municipal Solid waste is waste. (a) Rural (b) Urban (c) Both 2. Which of the following is the oldest and the most C0l111110method used to dump solid wastes? (a) River (b) Ocean (c) Landfill (d) None of above 3. Batch type biogas plant is charged at days interval. 4. Gasification process is a process of conversion of fuel in to 5. Gasifiers required at least half an hour or more to start the process. True or False. Q.2 Attempt any four (Short Questio-ns) 12 (1) Describe 3R principle of waste management, (2) Differentiate between Renewable and Non-Renewable Energy Sources. (3) Classify Hazardous Waste. (4) Explain factors affecting biogas generation. (5) Compare Thermal and Non-Thermal technologies of Waste Management Q.3 Attempt any two 80 (1) Explain Management Hierarchy (2) Sketch Floating drum type biogas plant. (3) Explain Pyrolysis process. (A) Explain Biogas Generation in detail. Q.4 05 (B) Classify Waste. Explain Biomedical Waste. 05 OR (B) Explain Characterization of Waste for Energy Utilization. 05