Centre for Open and Distance Learning(CODL)
Tezpur University

Tezpur, Assam- 784028

ASSIGNMENT FOR SPRING SEMESTER END EXAMINATION, 2020

Course Name- Energy Efficiency in Thermal Utilities

Course Code- DRE 202

Full Marks= 30

Instructions:

- All parts carry equal marks
- Provide neatly drawn illustrations
- No credit will be given if found copying
- List all the sources (books, reports etc) used for preparing the Assignment

1. Describe different fossil fuels used in thermal utilities. Your description should cove the following:
   a) Classification of fuels
   b) Fuel chemistry
   c) Properties of fuel
   d) Relative merits and demerits of different fuels

2. Describes Boilerused in different thermal utilities. Your description should cove the following:
   a) Construction and working principles
   b) Mountings and accessories,
   c) Performance and its measurement
   d) Operation and maintenance

3. Do you believe that (a) Cogeneration and (b) Waste heat recovery are useful approaches for energy conservation? Your answer must be justified with appropriate examples.