

Roll No.

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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (CSE) (Artificial Intelligence) (Sem.-3)

WASTE TO ENERGY

Subject Code : MTAI-OE6-18

M.Code : 92903

Date of Examination : 19-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2. Each question carries TWELVE marks.

- Explain the significance of agro-based and forest residue waste as fuel.
 - Explain the function of Incinerators and gasifiers as conversion devices.
- What do you mean by biomass pyrolysis and discuss its types?
- Discuss various equilibrium and kinetic considerations in gasifiers operations.
 - Explain downdraft and updraft gasifiers.
- Discuss in brief about biomass stoves with respect to improved chullahs and explain its types?
- Discuss in brief the constructional features and design of bio energy system?
- Discuss various methods to manufacture of pyrolytic oils as well as gases and also explain its industrial applications?
- Write a short note on alcohol production from biomass?
- Discuss in details the design as well as operational differences between Fixed and Fluidized bed combustors?

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.