

Roll No.

Total No. of Pages : 01

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M.Tech. (Embedded System) (Sem.-3)

WASTE TO ENERGY

Subject Code : MTOE-301C-18

M.Code : 76858

Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2.Each question carries TWELVE marks.

1. a) What is MSW? Explain different types of MSW.
 b) Discuss Forest residue briefly.
2. a) Define pyrolytic oil.
 b) Explain the manufacturing process of pyrolytic oils briefly.
3. Explain Gasifier burner arrangement for thermal heating in detail.
4. Explain the operation of Fixed bed combustor with neat sketches.
5. Discuss Biomass conversion processes in detail with neat sketch.
6. Explain Bio-diesel production in detail.
7. How gasifier output is utilized in Electrical Power Plants? Justify.
8. Explain the following types of charcoal production processes:
 - a) Earth kiln
 - b) Brick kiln
 - c) Metal kiln.

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