


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: Waste to Energy Program: M.Tech – ESS + REE Course Code: EPEC7047P Instructions: All questions are to be attempted		Semester : II Time : 03 hrs. Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Describe the factors affecting the Solid Waste Generation	4	CO1
Q 2	Describe the 3Rs of SWM	4	CO1
Q 3	Illustrate the agro residues available for converting to Energy	4	CO2
Q 4	Briefly write about solar driven biomass system	4	CO3
Q 5	Describe the advantages and Disadvantages of Biomass	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Describe the Anaerobic digestion process and its digestion factors	10	CO2
Q 7	Illustrate the Advantages / Dis-advantages of i) Sanitary Landfill ii) Phytoremediation	10	CO2
Q 8	Compare fluidized bed Incinerator with grater stroke Incinerator	10	CO3
Q 9	Describe the pro conditions for non-energy option like composting	10	CO1
SECTION-C (2Qx20M=40 Marks)			
Q 10	Explain the design of Sanitary Land-filling spots and collection of gases from it	20	CO5
Q 11	Compare various liquid fuel alternative OR Compare various Non-liquid fuel alternatives	20	CO4