MASTER OF SCIENCE (RENEWABLE ENERGY AND ENVIRONMENT)

(MSCRWEE)

Term-End Examination June, 2023

MRW-003: RENEWABLE ENERGY SYSTEM

Time: 3 Hours Maximum Marks: 70

Note: (i) Attempt any **seven** questions.

- (ii) All questions carry equal marks.
- 1. Give a detailed description about the constituents, characteristics and applications of natural gas.
- Describe, in detail the process of sampling of coal along with its types.
- 3. Discuss, in detail the various characteristics and applications of biodiesel.
- 4. (a) Enumerate some ways for direct use of solar energy. 5

	(D)	disadvantages of solar energy?	and 5
5.		scribe the working and construction of ilt-in-storage solar water healer'.	of a
6.	hyd	plain any two of the classifications roelectric power based on the capacity ser flow regulation.	
7.	Enlist the various types of biogas plant. Discuss about 'Batch plants'.		
8.	How can hydrogen storage be achieved using carbon nanotubes? Explain.		
9.	Discuss:		
	(i)	Flash steam open system	5
	(ii)	Binary cycle system based on geother energy system	mal 5
10.	Write short notes on any <i>two</i> of the following:		
		2×5	=10
	(a)	Direct piezoelectric effect	
	(b)	Biomass gasification	
	(c)	Pelton turbine	
	(d)	Waterpumping windmill	