MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Seme	ster : IV (New) Term : Second Academic Year : 2022-23
Cours	i lie : Renewable Energy and Green Accanology
Credit	ts : 2 (1+1)
Day &	Date : Citating, voice 1222
	Note: 1. Solve ANY EIGHT questions from SECTION 'A'. 2. All questions from SECTION 'B' are compulsory.
	3. All questions carry equal marks.
	4. Draw neat diagram wherever necessary.
	SECTION 'A'
Q.1 _、	What is biomass? Give the uses of biomass.
Q.2	Explain KVIC biogas plant with its advantages and disadvantages.
Q.3	What is gasification? Enlist types of gasifiers and explain downdraft gasifier.
Q.4	Explain box type solar cooker.
Q.5	What is solar water heating? Explain direct natural circulation type solar water heater.
Q.6	Discuss working of solar still.
Q.7	What is solar drying? Enlist different types of solar dryer.
Q.8	Discuss the application of solar photovoltaic system.
Q.9	Give the uses of wind energy system.
Q.10	Compare conventional and non-conventional energy sources.
	SECTION 'B'
Q.11	Define the following terms:
	1) Anaerobic digestion
	2) Gasification
	3) Hydraulic retention time
	4) Solar cell
0.12	Fill in the blanks:
Q.12	
	1) Insulation is provided in solar devices to minimize the
	2) Wind is the result of uneven heating of the
	3) The calorific value of biogas is kcal/m ³ .
	4) Orientation of solar appliances are generally facing.