Seat No:	Enrollment No:

## PARUL UNIVERSITY COLLEGE OF AGRICULTURE

## **B.Sc.(Hons.)** Agriculture, Summer 2018 - 19 Examination

-	: 6 Code: 20106351 Jame: Renewable Energy	Time: 1	0/04/2019 10:30 am to 1:00 pm Aarks: 60		
Instruction					
	stions are compulsory.				
-	to the right indicate full marks.				
_	uitable assumptions wherever necessary.				
	ew question on new page.				
	1 0				
Q.1 Do	as Directed.				
A. Fil	l in the blanks. (Each of 1 marks)		(10)		
1.	The prime source of water on earth is				
2.	is used commonly in India to §	generate electricity.			
	The full form of CNG is				
4.	The full form of LPG is				
5.	Biogas contain % of metha	ne			
	The unit of Energy is				
7.	With increase in height, the wind speed wil	1			
8.	The chemical formula for methane is	••••••			
9.	Solar cell is used to convert solar energy in	to			
	. Energy derived from hot spots beneath eart				
B.Mu	ultiple choice type questions. (Each of 1 m	ark)	(10)		
	Most of the renewable energy used on earth				
	a) The sun	c) Soil			
	b) The moon	d) Oceans			
2.	Which one is not fossil fuel?				
	a) Coal	c) Oil			
	b) Geothermal	d) Natural Gas			
3.	Which among the following is conventional energy source?				
	a) Solar energy	c) Geothermal energy			
	b) Wind energy	d) Petroleum			
4.	Anemometer is used to measure				
	a) wind direction	c) wind speed			
	b) wind rotation	d) all of the above			
5.	Which of the following is a renewable source of energy?				
	a) Coal	c) Petroleum			
	b) Sun	d) Both (a) and (b)			
6.	Bio-diesel is produced from oils or fats using				
	a) Transaction	c) Transesterification			
	b) Transformation	d) Transportation			
7.	Which plant has been cited as a high yield source of bio – diesel?				
	a) Jatropha	c) Sesame			
	b) Mustard	d) All the above			
8.	Solar water heater converts	•			
	a) Solar energy to thermal energy	c) Solar energy to electrical	energy		
	b) Solar energy to mechanical energy	d) None			

	9.	Solar dryer is usesfor drying	purpose.	
		a) Wind energy	c) Electricity	
		b) Solar energy	d) Geothermal energy	
	10	Wind is used to	,	
		a) Draw underground water	c) Operate flour mills	
		b) Generate electricity	d) All of the above	
0.2	Do	as Directed.	,	
_		fine the following. (Any five)		(05)
		Solar Energy.		` ′
		Wind Energy		
		Solar lantern		
	4.	Downdraft Gasifier		
	5.	Photovoltaic cell		
	6.	Parabolic solar cooker		
	7.	Solar still		
B	. An	swer the following. (Any five)		(05)
	1.	Enlist renewable energy sources.		
	2.	Enlist types of gasifier.		
	3.	Give the name of at least three appliances in	which solar energy converted to thermal	
		energy.		
	4.	Is Geo thermal a renewable energy?		
	5.	Do biofuels have any social impact?		
	6.	Are fossil fuels renewable?		
	7.	Is peat biomass or a fossil fuel?		
Q.3	$\mathbf{W}$	rite short notes. (Any five)		(15)
		. Solar Energy		
		. Explain Biodiesel production from Jatropa	Seeds	
		. Construction of Wind Mill		
	4	. Types of Biogas Plant		
	5	Draw neat sketch of Biogas Plant		
	6	. Agriculture wastes		
Q.4	An	swer the following in detail. (Any three)		(15)
	1.	Explain downdraft gasifier with the help of ne	eat sketch.	
		Write a note on Indirect Solar Dryer		
		Write a note on Parabolic Solar Cooker		
	4.	Differentiate between On shore and Off shore	e Wind Mill	