xv) Give four advantages of a gassifier.

## SECTION-C

**Note:**Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain various types of biogas plant.
- Q.4 Explain construction and working of solar cooker with the help of diagram. Also give the application of solar cooker.
- Q.5 What are thermoelectric materials. State in detail applications of thermoelectric power.
- Q.6 What is wind mill. Discuss its principle and types.
- Q.7 Write short notes on :-
  - (i) Importance of non conventional sources of energy.
  - (ii) Geothermal source.

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030954B

## 5th Sem. / Electrical

**Subject: Non Conventional Energy Sources** 

Time: 3 Hrs. M.M.: 100

## **SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What do you mean by renewable sources of energy.
  - b) Name the green house gases.
  - c) Define Energy.
  - d) Give the S.I. Unit of solar Energy.
  - e) OTEC stands for \_\_\_\_\_.
  - f) Name two primary Sources of Energy.
  - g) Define Photosynthesis.
  - h) WECS stands for \_\_\_\_\_.

i)	)	Output of Solar energy is	Volt.	ii)	How tides are generated.		
j)	)	Define a fuel cell.		iii)	Discuss in brief the scope of Non-		
k	()	Define fermentation.			Conventional energy sources.		
ľ	)	Explain M.H.D.		iv)	What are the limitations of Solar Energy.		
n	n)	Define Biomass.		v)	What are thermoelectric materials. Give its two applications.		
r	,	Name the source of heat gene Sun.	rations in	vi)	Give the applications of storage battery.		
C	o)	Name the different types of Hydro	plants.	vii)	Give the merits and demerits of wind energy.		
p	)	Define tides.  Name the types of Wind Mill.		viii)	) Enlist the various applications of solar energy.		
C	1)						
r	r) Solar cell is made of			ix)	Briefly explain the green house effect.		
			x) What do you mean by storage of energy?				
SECTION-B				xi)	What is the difference between renewable and non-renewable energy sources.		
<b>Note:</b> Short answer type questions. Attempt any ten parts 10x4=40			_	xii)	What is Bio-Chemical Conversion.		
Q.2 i)	Enlist the factors affecting bio g	as power	xiii)	Give the merits of fuel cell.			
		generation.		xiv)	How the battery is maintained.		
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