S.B. Roll No				
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NON CONVENTIONAL ENERGY RESOURCES 5th//Elect/5520/3552/May'16

Dı	uration: 3 hrs.	M. Marks=75		
	SECTION A			
Q1) Fi	ll in the blanks: -	1.5x10=15		
a	The plants don't require any fuel.			
b	D. Flat plate collectors can use both & solar radiations. Conversion efficiency of PV cell is L. Anaerobic digestion involves digestion of biomass.			
c	c. Conversion efficiency of PV cell is .			
d	d. Anaerobic digestion involves digestion of biomass.			
e	e. In pyrolysis chemical change is			
f	The purpose of the controller is to sense			
g	g. Sluice gates are opened by and no mechanical means is required.			
h	is a combination of open and closed cycle.			
	Darrius type motor is starting and has speed.			
j	. Geothermal energy has a heart inside the earth.			
	SECTION B			
Q2) At	ttempt any FIVE questions: -	5x6=30		
a.	Explain the various types of energy resources?			
	What factors influence the selection of a biogas plant?			
c.	What are the environmental factors associated with wind energy.			
d.	What is the difference between fuel cell & battery?			
e.	What do you mean by non-conventional sources of energy?			
f.	What are the different types of solar collectors?			
g.	What are the pants of a tidal plant?			
h.	What are the advantages of MHD generator?			
	SECTION C			
Q3) At	ttempt any THREE questions: -	3x10=30		
a.	Explain the principle working of solar water heater with neat figures?			
b.	What are present scenarios and future prospects of non conventional energy sources in India?			
c.	What are the different methods of obtaining energy from biomass explain briefly on method?			
d.	Explain the construction & working of a lead acid battery.			
e.	Explain the following OT EC cycle			
	(1) Open cycle (2) Closed Cycle.			