H-1434

Total No. of Printed Pages:1

SUBJECT CODE NO:- H-1434 FACULTY OF SCINECE AND TECHNOLOGY

T.Y.B.Tech.(Electrical) (Sem-V) Elective-II Renewable Energy Sources (Revised)

		(Revised)	
[Time:	Two H	ours]	[Max.Marks:40
N.B		 Please check whether you have got the right question paper. Question no.1 from section A and Question no 4 from section B Solve any one from remaining questions from each section Assume suitable data, if required. Section A 	is compulsory.
Q.1	a) b)	Define Solar collectors. Define Solar panels. List out the various instruments for measuring solar energy. Explain the Solar irradiation Explain any energy storage system. Draw a solar cooling system and label all parts neatly. Draw a solar cell and label all parts neatly.	10
Q.2		Explain Photovoltaic effect. How solar energy is used for room heating. Explain with neat diagram.	05 05
Q.3		Explain Horizontal axis wind turbine in detail. Explain how we measure solar energy using pyrheliometer with neat diagram.	05 05
		Section B	
Q.4	a) b) c) d) e) f)	Explain the term biogas. Draw a neat diagram of biogas plant. Explain Fermentation What do you mean by Tide & Wave Draw a neat diagram of energy generation for geothermal sources. List the factors controlling yield of biogas. List out the advantages of OTEC system.	10
Q.5	3 ~ 1 . 1 1 1 1 1	Explain in detail any one type of biogas plant. Explain pyrolysis process in detail.	05 05
Q.6	A Y A") A 1	Explain wave energy conversion system. Explain energy generation from geothermal sources.	05 05