## GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- II(New course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 2723007Date: 14/12Subject Name: Energy TechnologyTotal Marks: 70			2015
Instructions:			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain energy audit. How it helps in energy strategy and planning? Explain concentrating collectors with diagram	07 07
Q.2	(a) (b)	Explain flat plate collector with diagram. Writ a short note on Wind energy collectors. <b>OR</b>	07 07
	(b)	Explain analysis & properties of Coal.	07
Q.3	(a) (b)	Discuss impact of energy on economy. Explain basic components of Wind Energy Conversion Systems (WECS). OR	07 07
Q.3	(a) (b)	Explain properties & utilization of Biogas. What is Biogas Generation? Explain factors affecting it.	07 07
Q.4	(a) (b)	Explain Biomass Conversion Technologies. Explain Properties of Hydrogen	07 07
Q.4	(a) (b)	<b>OR</b> Write a short note on Fossil Fuel Cell. Magnetic field & super conductivity for MHD Generation	07 07
Q.5	(a) (b)	Explain different fuel for Nuclear Reactor. Explain advantages, materials used for MHD Generation. OR	07 07
Q.5	(a) (b)	With block diagram explain closed cycle system for MHD Generation. Explain Uranium Enrichment Process.	07 07

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