

Code No: J2102/R16

M. Tech. II Semester Regular Examinations, May-2017

ENERGY MANAGEMENT Thermal Engineering (21)

Time: 3 Hours Max. Marks: 60

			A	Answer an All Questions	. ~				
1.	a b	Explain the importance of energy management tool for various organizations. What is the role of energy manager in process industry? Discuss.							
2.	a b	Explain the org State with reason			••	•	stry.		
3.	a	liquid fuel using following data.							
		Constituents % by weight	Carbon 86.9	Hydrogen 11	Oxygen 0.7	Nitrogen 0.5	Sulfur 0.5	Water 0.25	Ash 0.15
 4. 5. 	b a b a b	Write about energy flow networks with neat sketch. Give features of energy conservation Act-2001. Explain about Cash Flow Diagrams. What is Time value of money and explain. What do you understand by risk analysis? Explain.							
6.	a b	Describe in detail about project evaluation. List out the advantages of Payback, Investor's rate of return and Present worth methods.							
7.	a b	Explain replace Describe Solar		-		-		advantag	es.
8.	a b	Discuss about Phase Change Materials in thermal storage system. Explain the different types of Wind conversion devices.							