Seat No.:	Enrolment No.

Su Tii	bject me: 1 struc 1. 2.	GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – II • EXAMINATION – WINTER • 2013 code: 1722104 Date: 04-01-2014 Name: Energy Conservation and Management 0.30 am – 01.00 pm Total Marks: 70 etions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss the current energy scenario of India. Explain the principles of energy conservation.	07 07
Q.2	. ,	What are the potentially available resources of energy? Explain the mechanism of fluidized bed combustion (F.B.C.) OR	07 07
	(b)	What is the necessity of energy storage?	07
Q.3	(a) (b)	What are the different methods of energy storage? What are the economic impacts of energy conservation? OR	07 07
Q.3	(a) (b)	Explain the role of Energy information system. Write a note on energy efficient machines.	07 07
Q.4	(a) (b)	What are the factors influencing energy management program? How energy and power management is done in industry? OR	07 07
Q.4	(a) (b)	How is annual heating and cooling load factors calculated? Discuss the energy consumption pattern.	07 07
Q.5	(a)	Write note on any two:-	14

- Internal rate of return.
 Life cycle costing.
 Demand management.
 Energy Audit.
