

R09

Code No: D9105

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012

ENERGY MANAGEMENT

(HEATING VENTILATION AND AIR CONDITIONING)

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

- - -

1. Explain any three types of devices of solar energy collection.
- 2.a) Give energy flow network diagrams in detail.
b) Discuss thermal storage system.
- 3.a) Explain the uses of solar energy.
b) Give briefly the methods of evaluation projects.
4. Discuss wind devices in detail.
5. Define energy audit and explain procedure of energy audit in any organization.
- 6.a) Discuss Depreciation in detail.
b) Explain Replacement analysis in detail.
- 7.a) Give functions of energy manager.
b) Discuss Internal rate of return.
8. Write short notes on:
 - a) OTEC
 - b) Geo-thermal energy
 - c) Budget consideration
