

Total No. of Questions : 12]

May - June - 2012

SEAT No. :

P1343

[Total No. of Pages : 4

[4164] - 434

B.E. (Mechanical)

ENERGY AUDIT & MANAGEMENT

(2008 Pattern) (Elective - I) (Sem. - I)



Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:-

- 1) Answer 3 questions from Section I and 3 questions from Section II.
- 2) Answers to the two sections should be written in separate books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables and time value of money factor table is allowed.
- 6) Assume suitable data, if necessary.

SECTION - I

Q1) a) Explain current energy scenario in India. [8]

b) Describe Energy & Environment. [8]

OR

Q2) a) Describe need for renewable Energy. [8]

b) Write note on energy policy. [8]

Q3) a) Explain different instruments and equipments used for Energy audit. [8]

b) What are the Energy conservation opportunities for pumping system? [8]

OR

Q4) a) Describe Energy conservation opportunities in boiler and Steam system [8]

b) Write short note on Energy Audit software. [8]

Q5) a) How you will determine cost of electricity generated in case of Thermal Power Plant? [8]

b) Write short notes on. [10]

i) Net Present Value (NPV).

ii) Return On Investment. (ROI).

OR

P.T.O.

