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**B.E./INSEM/APR-610**

**B.E. (Chemical) (Semester - II)**

**409351A : ENERGY CONSERVATION IN CHEMICAL PROCESS INDUSTRIES**

**(2015 Pattern) (Elective - III)**

**Time : 1 Hour]**

**[Max. Marks : 30**

**Instructions to the candidates:**

- 1) *Answer any three questions.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Use of logarithmic tables, slide rule, gharis, electronic pocket calculator and steam tables is allowed.*
- 4) *Assume suitable data, if necessary.*

**Q1)** Distinguish between Conventional and Non Conventional sources of energy. Explain the advantages and disadvantages of these sources. [10]

OR

**Q2)** Explain the scope of energy conservation and its importance in process industries. State its benefits towards industries, nation and globe. [10]

**Q3)** Explain the role, responsibilities and duties of Energy Manager to be assigned Under the Energy Conservation Act 2001. [10]

OR

**Q4)** Define the term Energy Audit. What is the difference between primary and detail audit? [10]

**Q5)** What are different methods of Biochemical energy generation? Enlist the merits of such energy? [10]

**Q6)** Discuss the selection of steam traps and its effect on energy consumption. [10]

