

Total No. of Questions : 6]

SEAT No. :

P1422

[Total No. of Pages : 1

BE/Insem./APR-237

B.E. (Chemical)

ENERGY CONSERVATION IN CHEMICAL PROCESS INDUSTRIES

(2015 Course) (Semester -II) (Elective - III) (409351 A)

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

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

Q1) Explain the scope of energy conservation and its importance in process industries. State its benefits towards industries, nation and globe. **[10]**

OR

Q2) Distinguish between Conventional and Non conventional sources of energy. Explain the advantages and disadvantages of these sources. **[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. Explain in brief about the difference between primary and detail audit. **[10]**

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

OR

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

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