Total No. of Questions : 10]

SEAT No. :

P3210

[Total No. of Pages : 2

[5354]-724
B.E. (Chemical)
ENERGY CONSERVATION IN CHEMICAL PROCESS INDUSTRIES
(2012 Pattern)

Time : 2 ½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

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

Q1) Explain the power generation by wind and Geothermal energy. **[10]**

OR

Q2) State Energy Management & State its objectives. **[10]**

Q3) Explain in detail Applications of renewable energy sources. **[10]**

OR

Q4) Define energy audit as per the energy conservation Act 2001. Explain detailed energy audit methodology. **[10]**

Q5) Discuss the importance of nuclear option for power generation in India? **[16]**

OR

Q6) What is co-generation? Explain the importance co-generation in sugar industries. **[16]**

Q7) a) Write in details elements of energy management program. **[8]**

b) Enlist activities for promoting energy conservation in present status. **[8]**

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OR

Q8) a) Enlist the checklist for energy conservation in motors and transformers. **[8]**

b) How and where the energy losses can be minimized in coolers. **[8]**

Q9) a) Draw the sketch of Evaporators and explain its principle and working. **[9]**

b) Explain Waste- Minimization and Resource Conservation. **[9]**

OR

Q10) Explain waste minimization and its classification, housekeeping, process change. recycling. product modification, waste minimization methodology steps, benefits of waste minimization in Cement industry. **[18]**

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