

IV B.Tech I Semester Supplementary Examinations, April/May 2005
ENERGY ENGINEERING
(Chemical Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss the salient points in transportation of coal from pit-head to the point of utilization.
(b) What is the scope for future development of coal industry.
2. (a) What is stabilization of crude?
(b) Why dehydration and desalting of crude is necessary?
(c) State the physico-chemical aspects involved in any of these operations
3. Explain the significance of following properties of petroleum products
(a) Vapour pressure
(b) Viscosity
(c) Cloud point-pour point
(d) Freezing point
4. Describe a typical domestic solar water heating system with a neat schematic. Explain its principle and operation.
5. (a) What are the types of Geothermal fluids?
(b) Explain briefly with a neat sketch about Hot dry rock Geothermal source.
6. How hydrogen can be produced and mention its uses.
7. Describe the constructions and working of dry cell battery with a neat diagram.
8. Discuss the municipal solid waste management. Stress the importance of the processes.
