



Name :

Roll No. :

Invigilator's Signature :

CS/B.Tech (CT)/SEM-8/HU(CT)-803/2010

2010

ENERGY & ENVIRONMENT MANAGEMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Normal Distribution Table to be supplied by the Institute

GROUP – A

Answer any *five* of the following. $5 \times 14 = 70$

(Taking at least two from each Group)

1. Enumerate the goals of Five-Year Plans in terms of energy consumption up to Tenth Five-Year Plan. National Energy Policy (NEP) entails certain major tasks – what are the tasks ? 9 + 5

2. What are the sources of energy for glass making ? Discuss the relationship between cullet use and energy saving. How can the amount of energy be reduced in conventional melting furnaces ? Make a comparative statement about theoretical vs actual energy use in melting. 3 + 5 + 4 + 2

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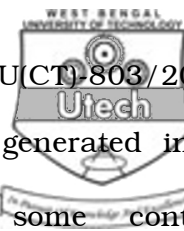


3. What is energy audit ? What are the basic tools that an energy auditor commonly needs ? Prepare a general energy audit report format. 2 + 4 + 8

4. Give an account of the present day status of oil and gas sector reforms in India. What is the objective of subsidy regime with regard to energy supplies to the rural sector ? Discuss its effect upon irrigation. 8 + 4 + 2

GROUP – B

5. What is environmental monitoring ? What are the uses/benefits of environmental monitoring ? Discuss some types of environmental audit in the light of area of concern and objectives. 2 + 6 + 6
6. Draw a general flow-diagram for treatment of liquid hazardous waste. Discuss the salient features of physical treatments like sedimentation, adsorption and aeration processes. 6 + 8
7. How do you classify solid wastes ? Outline the methods of collection of solid wastes. Discuss the purpose and disadvantages, if any, of various disposal methods for solid wastes. 4 + 3 + 7



8. Discuss about various types of pollution generated in a typical ceramic plant and describe some control methods/devices for countering these pollution. 14

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