



Name :

Roll No. :

Invigilator's Signature :

CS/B.Tech/CT/SEM-8/HU(CT)-803/2013

2013

ENERGY AND 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.*

GROUP – A

(Objective Type Questions)

1. Answer the following :

A. Choose the correct alternatives for the following :

5 × 1 = 5

i) Which of the following sources has the highest
yearly contribution to the worldwide energy pool ?

- a) Coal
- b) Oil
- c) Natural Gas
- d) Nuclear Fuel.

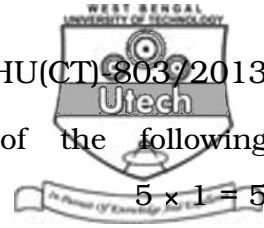
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- ii) Which country does generate per capita maximum electricity ?
 - a) Saudi Arabia
 - b) Germany
 - c) Canada
 - d) U.K.
- iii) The most energy-intensive components of glass manufacture is
 - a) Annealing
 - b) Melting
 - c) Forming
 - d) Batch mixing.
- iv) Which of the following bio-fuels is still in greatest demand in rural India ?
 - a) Fuel Wood
 - b) Crop Residue
 - c) Dung Cake.
- v) An energy audit report should not contain
 - a) Executive Summary
 - b) Auditor's Tool-box
 - c) Energy Bill Analysis
 - d) Action Plan.



B. What are the the full forms of the following abbreviations ?

vi) SEMP

vii) EMA

viii) EIA

ix) QMS

x) PDCA.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Outline the goals of seventh to tenth five-year plans with reference to energy use.
3. What is the objective of subsidy regime in regard to energy supply to the rural sector ? Discuss its effect on irrigation.

$3 + 2$

4. What is the concept of environment ? Illustrate the interaction of environmental concept with a diagram. $2 + 3$
5. Draw the flow diagram which evolves Strategic Environmental Act (SEA).

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

6. 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. $3 + 5 + 4 + 3$
7. What are the objectives of National Energy Policy ? Enumerate the Reform strategies to improve Energy Efficiency in transport sector. What are the salient features of Coal Sector Reforms ? $4 + 7 + 4$
8. What are meant by ISO 9001 and ISO 14001 ? What is the difference between them ? What are the benefits of ISO 9001 ? What are the requirements of a company to achieve ISO 14001 ? Enumerate the advantages of ISO 14001. $2 + 1 + 4 + 4 + 4$
9. What do you mean by waste minimization ? Explain waste minimization with a hierarchy diagram. What is the connection between poverty and environment ? $4 + 3 + 8$

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