



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
 Paper Code : CE(ES)302 Energy Science & Engineering
 UPID : 003502

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

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

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) Disadvantage of most of the renewable energy sources?
- (ii) What is Nuclear energy?
- (iii) What is in a LEED certification?
- (iv) Uses of Hydroelectricity?
- (v) How do you make a building sustainable?
- (vi) Non-renewable resource is a.....
- (vii) Define sonic energy?
- (viii) How do you start a power plant?
- (ix) How is height of wave determined?
- (x) GRIHA has been prepared by
- (xi) BTU is measurement of
- (xii) Which lightening stroke is most dangerous?

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

2. How are energy systems classified?
3. What do you mean by clean energy?
4. What are the 4 types of coal?
5. What is the most important sustainable development?
6. How the economic system determines production?

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Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

7. (a) What are 5 facts about fossil fuels?
- (b) How can we save fossil fuels?
- (c) Are fossil fuels renewable?
8. (a) Why is clean energy important for sustainable development?
- (b) What is the importance of energy sustainability?
- (c) What makes sustainable development important?
9. (a) What are 5 examples of biomass?
- (b) What are biomass fuels?
- (c) How do hydro dams work?
10. (a) What is the most sustainable form of energy?
- (b) What are some examples of sustainable energy?
- (c) What are the different types of sustainable development?
11. (a) Why are hydroelectric power plants built at the bottom of a dam instead of at the top?
- (b) Why are hydroelectric dams needed?
- (c) How are hydro dams built?

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