

22506

23124

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

5 × 2 = 10

- (a) Define EIA.
- (b) Write any four limitations of EIA.
- (c) Define Wind Energy.
- (d) Write any four advantages of ocean energy.
- (e) Define Green Building.
- (f) List the various systems used for rating of green building in India.
- (g) Give any two LEED criteria for certification.

2. Attempt any THREE of the following :

3 × 4 = 12

- (a) Explain the sources of Air Pollution.
- (b) Suggest any four preventive measures to reduce the effects of Noise Pollution in the given situation.
- (c) Write the salient features of Water Act, 1974 pertaining to Environmental Pollution.
- (d) Differentiate between Environmental Audit and Environmental Impact Assessment (any four points).



- 3. Attempt any THREE of the following :** **3 × 4 = 12**
- (a) Describe the procedure to complete the EIA of a project.
 - (b) Explain any four types of Green Building Materials with their applications.
 - (c) Explain the principles of Green Building.
 - (d) Explain the salient provisions used in IGBC green rating system for New Buildings.
- 4. Attempt any THREE of the following :** **3 × 4 = 12**
- (a) Explain four Environmental Design (ED) strategies for building construction.
 - (b) Explain the role of HVAC in Green Building.
 - (c) Compare GRIHA and IGBC rating system of Green Building.
 - (d) Explain the methods to convert existing building into Green Building.
 - (e) Explain the steps for certification of IGBC for a public building.
- 5. Attempt any TWO of the following :** **2 × 6 = 12**
- (a) Explain the different types of Environmental Audit.
 - (b) Explain the role of MEDA in Energy conservation.
 - (c) Explain the concept of Energy conservation and different ways of achieving it.
- 6. Attempt any TWO of the following :** **2 × 6 = 12**
- (a) Explain the functions of BEE in detail.
 - (b) Explain the concept of waste to wealth with the help of three examples.
 - (c) Explain the planning concept of Green Building and related strategies for a school building.
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