23124

3 Hours / 70 Marks   Seat No. ☐☐☐☐☐☐☐☐

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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