

22506

**21222**

**3 Hours / 70 Marks**

Seat No.

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15 minutes extra for each hour

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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.
  - (5) Preferably, write the answers in sequential order.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) Define the term “Soil Pollution”.
- (b) List any four means for controlling noise pollution.
- (c) Define the term ‘Environmental Audit’.
- (d) List any four non-renewable energy resources.
- (e) State any four benefits of green building.
- (f) Define LEED criteria.
- (g) List any four green building materials.

**2. Attempt any THREE of the following :**

**12**

- (a) Explain ‘air pollution’ and any four steps for the control of air pollution.
- (b) Discuss four environment laws for controlling pollution.
- (c) List steps in environmental impact assessment process.
- (d) State and explain necessity of environmental audit.

- 3. Attempt any THREE of the following : 12**
- (a) State any four benefits of EIA. State the limitations of EIA process.
  - (b) Explain different types of environmental audit.
  - (c) Discuss the advantages and disadvantages of renewable energy resources.
  - (d) Differentiate between renewable energy resources and non-renewable energy resources on any four points.
- 4. Attempt any THREE of the following : 12**
- (a) State and explain objectives of energy conservation.
  - (b) Explain the role of Ministry of New and Renewable Energy.
  - (c) State and explain principles of green building.
  - (d) Discuss the characteristics of any four green building materials.
  - (e) Is green building more expensive ? Justify your answer.
- 5. Attempt any TWO of the following : 12**
- (a) Explain environmental design (ED) strategies for building construction.
  - (b) Explain salient provisions used in IGBC rating system for a given building.
  - (c) Compare GRIHA and IGBC rating systems for Green Building.
- 6. Attempt any TWO of the following : 12**
- (a) State and explain role and responsibilities of Maharashtra Energy Development Agency (MEDA) in energy conservation.
  - (b) Discuss the role of HVAC system in design and operation of Green Building.
  - (c) Differentiate between EDGE and BEE rating systems of Green Building.
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