

22506

11920

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

10

- (a) List renewable energy resources.
- (b) Define air pollution and environmental pollution.
- (c) State different types of environmental audits.
- (d) Explain the necessity of environmental audits.
- (e) Define LEED criteria.
- (f) List out various renewable energy sources (any four).
- (g) State the principle of green building.

2. Attempt any THREE of the following :

12

- (a) Explain environmental laws for controlling pollution (any four).
- (b) State the steps involved in environmental impact assessment process.
- (c) State the functions of government organisation for ECA.
- (d) Describe the measures to reduce soil pollution.

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- 3. Attempt any THREE of the following : 12**
- (a) Explain about any six green building materials.
 - (b) Describe the measures to reduce noise pollution.
 - (c) State the limitations of EIA.
 - (d) Differentiate between renewable & non-renewable energy sources.
- 4. Attempt any THREE of the following : 12**
- (a) Differentiate between GRIHA & IGBC rating system of green building.
 - (b) Explain about any two types of construction projects requiring environmental clearance.
 - (c) Explain four Environmental Design (ED) strategies for building construction.
 - (d) Explain the role of HVAC system in green building.
 - (e) State the benefits of EIA to environment.
- 5. Attempt any TWO of the following : 12**
- (a) Explain the role of MEDA in energy conservation in city.
 - (b) Explain the salient provisions used in IGBC.
 - (c) Explain the concept of green building.
- 6. Attempt any TWO of the following : 12**
- (a) Explain principles of green building used in educational building.
 - (b) Explain in detail need of energy conservation.
 - (c) Explain benefits to the school after getting IGBC green rating certification for school building.
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