

22506

24225

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--	--	--

- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Figures to the right indicate full marks.
 - (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

5 × 2 = 10

- (a) Define 'Green Building'.
- (b) Enlist any four sources of soil pollution.
- (c) Define the term 'Energy Conservation'.
- (d) Enlist any four necessities of EIA.
- (e) State necessity of rating systems for Green Building.
- (f) Enlist any four non-renewable energy resources.
- (g) Define 'LEED' rating system.

2. Attempt any THREE of the following :

3 × 4 = 12

- (a) Enlist the environmental pollution control laws and explain any one.
- (b) Explain any four measures to control Noise Pollution.
- (c) Explain any four types of Environmental Audit.
- (d) Explain various planning concepts of Green Building.



- 3. Attempt any THREE of the following :** **3 × 4 = 12**
- (a) State salient features of Green Building.
 - (b) Explain Environmental Design (ED) strategies for Green Building.
 - (c) Explain various steps of EIA.
 - (d) Differentiate between IGBC and GRIHA (any four points).
- 4. Attempt any THREE of the following :** **3 × 4 = 12**
- (a) Explain importance of HVAC system in Green Building.
 - (b) Explain GRIHA criteria for rating of Green Building.
 - (c) Explain 'LEED' rating system of Green Building.
 - (d) Explain 'IGBC' rating system for housing project.
 - (e) State the advantages of Green Building over Traditional Building.
- 5. Attempt any TWO of the following :** **2 × 6 = 12**
- (a) Define 'NPC' and state any six functions of it.
 - (b) State salient features of Energy Conservation Act, 2001.
 - (c) Explain environmental clearance for Civil Engineering Projects.
- 6. Attempt any TWO of the following :** **2 × 6 = 12**
- (a) Explain any six materials of Green Building.
 - (b) Explain principles of Green Building.
 - (c) Explain role of MNRE in energy conservation along with its features.
-