

**BACHELOR OF ARCHITECTURE (B.Arch.)**

**Term-End Examination**

00343

**June, 2018**

**BARE-077 : GREEN ARCHITECTURE AND  
ENVIRONMENTAL PLANNING (ELECTIVE – 2)**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Question no. 1 is compulsory. Answer four questions from the remaining. Support your answers with examples and sketches.*

1. Write short notes on any **four** of the following :
- $4 \times 3 \frac{1}{2} = 14$
- (a) Urban Heat Island
  - (b) Trombe Wall
  - (c) Nitrogen Cycle
  - (d) Embodied Energy
  - (e) Wastelands
  - (f) Greenhouse Effect

2. What is GRIHA ? Explain its salient features giving example from a GRIHA rated building. 14
  3. Write a short essay on Environment Management Plan. Describe in detail its importance and applicability in the Indian context. 14
  4. What is an Ecological Pyramid ? Illustrate and support your answer with neat sketches. 14
  5. Give an account of the main acts and regulations for environmental protection and resource conservation in India. 14
  6. Explain how daylighting concepts can help in achieving energy efficiency. Give suitable examples to support your answer. 14
  7. Enlist contemporary materials and construction techniques used for energy saving in intelligent buildings. 14
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