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**BARE-077** 

## BACHELOR OF ARCHITECTURE (B.Arch.)

## Term-End Examination December, 2015

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

Time: 3 hours Maximum Marks: 70

**Note:** Question no. 1 is **compulsory**. Answer any **four** questions from the remaining. Supplement your answers with neat sketches.

- 1. Explain in detail any **two** of the following with detailed sketches:  $2\times7=14$ 
  - (a) Nitrogen Cycle
    - (b) Ecological Pyramid
    - (c) Material Cycles
  - (d) GRIHA and LEED
- 2. (a) What are the methods of water conservation and management in a Green Rated Building?
  - (b) Describe the role of glass as a building material towards the thermal performance and interior lighting of a Green Rated Building.

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7

3.	What is Environment Impact Assessment (EIA)? Describe in detail the various stages of	
	the process in the Indian context.	14
4.	Discuss the impact of siting and orientation on the energy conservation of a building.	14
5.	What are the Government of India's policies related to the conservation, protection and recycling of natural resources and reserves? Describe any one such policy/act in detail.	14
6.	What are the effects of environmental pollution on urban areas? Discuss some necessary actions required to overcome and tackle this issue.	14
7.	What are the techniques and simulation softwares to carry out thermal design of buildings? Describe any one with detailed examples.	14
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