

**BACHELOR OF ARCHITECTURE**

**Term-End Examination**

**June, 2012**

00665

**BARE-077 : GREEN ARCHITECTURE AND  
ENVIRONMENTAL PLANNING**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Part A (question 1) is compulsory. Answer any two questions from Part B and any two questions from Part C.*

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**PART-A**

**(Compulsory)**

1. Explain in brief *any five* from the following : 5x2=10
  - (a) Embodied Energy
  - (b) Eutrophication
  - (c) Trombe Wall
  - (d) Kyoto Protocol
  - (e) Grey Water
  - (f) Greenfield Sites
  - (g) Acid Rain

## PART-B

(Answer *any two*)

2. (a) List out the various areas of water usage in a residential building and explain the water conservation methods you would adopt in the above mentioned areas. 10
- (b) How can heat island effects be reduced using appropriate technology for the roof of the building ? 5
3. (a) What is a 'green building' ? 5
- (b) Describe in detail some of the passive design methodologies which have been adopted for energy efficiency in buildings. 10
4. In the context of green buildings, what are the aspects one would ensure for : 15
- (a) Construction stage
- (b) Waste management ? Discuss with the help of suitable examples.

## PART-C

(Answer *any two*)

5. Describe the various types of Ecosystems on the basis of : **15**
- (a) habitats
  - (b) ecoclines
6. (a) Explain, **8**
- (i) natural sources
  - (ii) anthropogenic sources of air pollution
- (b) What is the Nitrogen Cycle ? Explain in detail with diagram. **7**
7. (a) Explain Environmental Impact Assessment (ETA). What are the various stages involved in EIA ? **10**
- (b) Explain the point modifications induced by man in the process of rivers. **5**
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