

BACHELOR OF ARCHITECTURE (B.Arch.)

00071 Term-End Examination
June, 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. Write short notes on any **five** of the following : $5 \times 2 = 10$

- (a) Trombe Wall
- (b) Cavity Wall
- (c) Solarium
- (d) Constructive Wetlands
- (e) ECOTECH
- (f) CFL

2. What is an ecosystem ? Describe in detail some of the natural and manmade ecosystems.

15

3. Compare and contrast GRIHA and LEED Rating System aspects of Green Building Design. 15
 4. What are the thermal design criteria for energy efficient design as per Energy Conservation Building Code ? 15
 5. What is solid waste management ? Discuss the process in detail and also list the role of various stakeholders. 15
 6. Differentiate between Carbon and Nitrogen Material Cycles. Support your answer with neat sketches. 15
 7. Describe the salient features of Environment Protection Act in India. Also mention the specific provisions for various natural resources. 15
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