

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

**Term-End Examination**

00342

**December, 2016**

**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 **four** of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Reverse Stack Effect
  - (b) Ventilation
  - (c) Environment Protection Act
  - (d) Thermal Comfort
  - (e) Energy Conservation
  - (f) LEED

2. Explain any *two* of the following pairs of terms : 2×7=14
- (a) Solid Waste Management and Waste Water Management
  - (b) Forest Conservation Act and Wild Life Act
  - (c) Environment Impact Assessment and Social Impact Assessment
  - (d) Reuse and Recycle
3. What is GRIHA ? Explain the salient features of GRIHA and discuss one case study of GRIHA rated building in detail. Support your answer with neat sketches. 14
4. Describe in detail the passive design methodologies which could be adopted for an energy efficient building situated in composite climate. Support with example. 14
5. What is climate responsive architecture ? Explain various factors which are considered for designing a climate responsive building. Support your answer with neat sketches. 14
6. What do you understand by ecology ? Explain ecology based design approach in architecture and planning. Supplement your answer with neat sketches. 14
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