## **BACHELOR OF ARCHITECTURE (B. ARCH)**

#### **Term-End Examination**

June, 2013

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

Time: 3	3 hours	Maximum Marks : 70
Note:	(i)	Answer five questions
	(ii)	Question No. 1 is compulsory.
	(iii)	Answer any two from Part-B and Answer any
		two from Part-C

## PART - A

### (Compulsory)

- 1. Explain in brief any five from the following: 5x2=10
  - (a) Eutrophication
  - (b) Building Envelope
  - (c) Solarium
  - (d) Sullage
  - (e) Brown field sites
  - (f) Cavity wall
  - (g) Acid Rain

#### **PART-B**

#### (Answer any two)

What are the environmental impacts of solid 2. (a) waste disposal on land? How can they be prevented? Draw a typical cross - section of a sanitary landfills with its salient aspects. Explain briefly: (b) 6 Additionality (i) Base Line (ii) (iii) Bundling 10 Explain Environmental Impact Assessment 3. (a) (EIA). What are the various stages involved in EIA? What is meant by carbon cycle? How are 5 (b) human activities causing disturbances to it? Explain with neat sketches. 10 What is meant by green house gas? Write (a) 4. short notes on any five green house gases.

What is a Project Design Document

(PDD)? Detail out the contents of PDD.

5

(b)

### PART-C

# (Answer any two)

5.	(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	
6.	(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	
7.	In the context of green buildings, what are the aspects one would ensure:			
	(a)	at construction stage		
	(b)	for Waste Management? Discuss with the help of suitable examples.		