

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

December, 2017

00382

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

Time : 3 hours

Maximum Marks : 70

*Note : Question no. 1 is **compulsory**. Attempt any **four**
from the remaining questions.*

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1. Explain and differentiate between any *two* of the following : $2 \times 7 = 14$
- (a) Carbon cycle and Nitrogen cycle
 - (b) Wetlands and Wastelands
 - (c) Trombe wall and Cavity wall
 - (d) IGBC and GRIHA Rating systems
2. Write a short essay on India's institutional and legislative framework for environmental protection and conservation of natural resources. 14

3. What do you understand by Daylighting Concepts in building design ? Explain in detail with neat sketches. 14
 4. Give a brief account of the design features and thumb rules for energy efficient building design as per the Energy Conservation Building Code. 14
 5. What do you understand by Ecological Pyramid ? Explain in detail and support your answer with neat diagrams. 14
 6. Describe an Ecosystem. Give a detailed account of the role of different ecosystems in maintaining the equilibrium of biodiversity. 14
 7. What are the environmental and ecological considerations for planning of cities and design of buildings in coastal regions ? Give your answer as per the Indian context. 14
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