

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

June, 2017

00445

**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.*

1. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) IGBC
 - (b) BEE
 - (c) Cavity Wall
 - (d) EIA
 - (e) GRIHA
 - (f) Solarium
2. What is Solid Waste Management (SWM) ? Describe in detail the need and mechanism of efficient solid waste management in a city. 14

3. Write a short essay on simulation softwares used for thermal designing of a building. Support with examples. 14
 4. What is an ecosystem ? Discuss man-made and natural ecosystems and support with examples. 14
 5. What do you understand by energy audit ? Explain the process in detail and give the eligibility criteria for an energy auditor. 14
 6. Enlist some contemporary materials and construction techniques required for improving the energy efficiency in a building complex. Give neat sketches to support your answer. 14
 7. What is rain water harvesting ? Explain in detail some methods and techniques of rain water harvesting at household and neighbourhood levels. 14
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