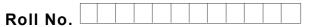
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Total No. of Pages : 01

Max. Marks: 60

 $(5 \times 2 = 10)$ 

Total No. of Questions : 08

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## B.Architecture (2012 & Onwards EL-I) (Sem.–8) SUSTAINABLE ARCHITECTURE–I Subject Code : BACH-807

M.Code: 72751

Time: 3 Hrs.

### **INSTRUCTION TO CANDIDATES :**

- 1. ALL questions carry EQUAL marks Except Question no.1.
- 2. Attempt FIVE questions including compulsory Question no.1
- 3. Attempt TWO questions from EACH UNIT.
- 1. Write short notes on the following :
  - a. Ecosystem
  - b. Carbon credits
  - c. Life cycle assessment
  - d. GRIHA
  - e. ECBC

## UNIT-I

- 2. What is meant by the term "Sustainable Development"? Discuss the objectives and scope of sustainable development. (12.5)
- 3. Write a detailed note on the growth of human settlements from early ages to contemporary times. (12.5)
- 4. Enlist renewal sources of energy and discuss the importance and potential of solar energy. (12.5)

#### UNIT-II

- 5. Explain solar passive architecture. Highlight your answer by describing any four solar passive techniques. (12.5)
- 6. Enlist the building rating systems followed in India and discuss any one of these. (12.5)
- 7. Write a note on recycling and reuse in the building industry. (12.5)
- 8. Elaborate on the LEED India rating system. (12.5)

# NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.