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Total No. of Pages : 01

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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.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. Attempt five questions in all. Question 1 is compulsory. Attempt any two questions each from Section A and B.

1. Write short notes on :

- | | |
|---------------------|---|
| a) Carbon footprint | 2 |
| b) IGBC | 2 |
| c) Embedded energy | 2 |
| d) Reuse | 2 |
| e) Ekistics | 2 |

SECTION-A

2. Define Sustainable Development. Why is sustainable development necessary? (12.5)
3. Discuss the role and importance of energy in buildings. What is the future of solar energy in the context of buildings? (12.5)
4. Enlist any four sustainable materials and explain their use in buildings. (12.5)

SECTION-B

5. Discuss the history of green building movement with special emphasis on green building certification programs. (12.5)
6. Explain any four significant principles of sustainable design. (12.5)
7. Discuss the importance of recycling and reuse in building industry. (12.5)
8. Discuss climate responsive and solar passive strategies for building design in cold climates of India. (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.