

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

B.Architecture (Sem.-7, 8)
SUSTAINABLE ARCHITECTURE-I

Subject Code : BACH-807

M.Code : 72751

Date of Examination : 09-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

1. Write short notes on : (2×5=10)

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

SECTION-A

2. Write a note on global warming, carbon credits and carbon footprint. (12.5)
3. What are the goals of sustainable development? Discuss the role of architect in sustainable development. (12.5)
4. Differentiate between renewal and non-renewal sources of energy. Highlight the role and importance of renewal sources of energy in building industry. (12.5)

SECTION-B

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