

Total No. of Pages : 02

Total No. of Questions : 08

B.Arch. (Sem.-4)
CLIMATE & ARCHITECTURE-I
Subject Code : AR-230
M.Code : 45031

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

- 1. All questions carry equal marks.**
- 2. Attempt FIVE questions in total.**
- 3. Attempt any ONE question from Unit 1.**
- 4. Attempt any ONE question from Unit 2.**
- 5. Attempt any THREE questions from the rest.**
- 6. Draw sketches where required.**

UNIT-1

1. List down the elements of climate and describe each in detail. (10)
2. What are the factors and their role which determine the global distribution of climatic regions? (10)

UNIT-2

3. What are the factors and how they influence the microclimate in urban areas? (10)
4. In the context of hot and humid climatic regions of India discuss the response of indigenous shelters with respect to their Architectural design, use of materials and construction methods. (10)

UNIT-3

5. What is effective temperature and corrected effective temperature? How does it help to define the parameters of thermal comfort? (10)

UNIT-4

6. Discuss the optimum orientation of buildings in the different climatic zones of India. (10)

UNIT-5

7. Discuss the guidelines for designing well ventilated buildings. (10)

UNIT-6

8. Discuss the fundamentals of heat exchange between buildings and the surrounding environment. (10)

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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.