

Roll No.

Total No. of Pages : 01

Total No. of Questions : 09

B.Architecture (2012 & Onwards) (Sem.-3)

CLIMATE AND ARCHITECTURE-I

Subject Code : BACH-304

M.Code : 70416

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. Attempt *Five* questions in all. Q1 is compulsory and attempt one question from each unit.

1. Write short notes on the following : 2×5=10

- a) Psychometric chart
- b) Heat balance eqn. of human body.
- c) Bio climatic chart
- d) Solar chart
- e) Micro climate

UNIT-I

2. Explain the role and application of climatology in building design through illustrations. 12.5
3. Write notes on :
 - a) Elements of climate 6
 - b) Global climatic factors. 6.5

UNIT-II

4. Explain solar altitude and solar azimuth angles and how are they plotted on a solar chart for a particular place. 12.5
5. Explain horizontal and vertical shading devices and how are they designed for a window facing southwest in Punjab. 12.5

UNIT-III

6. Explain the interrelationship of human heat balance and thermal comfort. 12.5
7. Explain the process of calculation of C.E.T with the help of a nomogram and its application. 12.5

UNIT-IV

8. Explain the characteristics of Composite type of climate. 12.5
9. What factors should be kept in mind for shelter design for Jaisalmer in Rajasthan. 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.