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**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 : 6
- a) Elements of climate
  - 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.**