

Total No. of Pages : 01

Total No. of Questions : 09

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

CLIMATE AND ARCHITECTURE-I

Subject Code : BACH-304

Paper ID : [A2052]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. Attempt *Five* questions in all. Q1 is compulsory and attempt at least one question from each unit. All questions carry equal marks except question no 1.

1. Write short notes on the following :

- a) Psychometric Chart (2)
- b) Optimum orientation (2)
- c) Thermal Stress index (2)
- d) Macro climate (2)
- e) Hot and Humid climate zone (2)

UNIT -I

2. Discuss in detail importance of studying building climatology for architects. (12.5)
3. Discuss in detail various elements of climate. (12.5)

UNIT -II

4. Discuss in detail the solar chart and its importance. (12.5)
5. Discuss in detail the concept and design of shading devices. (12.5)

UNIT -III

6. Discuss in detail the human heat balance and physical comfort. (12.5)
7. Discuss in detail the importance and application of bio climatic chart. (12.5)

UNIT-IV

8. Discuss in detail the role of climate with respect to shelter. (12.5)
9. Discuss in detail the study of indigenous shelter in response to various Climate zones in the tropical belt of India. (12.5)