

**BACHELOR OF ARCHITECTURE (B.Arch.)**

**Term-End Examination**

**December, 2016**

00332

**BAR-029 : ARCHITECTURAL SCIENCES AND SERVICES - I (CLIMATOLOGY)**

*Time : 3 hours*

*Maximum Marks : 70*

**Note :** *Question no. 1 is compulsory. Attempt five questions in all. All questions carry equal marks.*

1. Explain any **two** of the following terms : 2×7=14
  - (a) Climate of Delhi
  - (b) Trombe Wall
  - (c) Solar Chart
  
2. Discuss the importance of site analysis with respect to design decisions based on climatic aspects. 14
  
3. What do you understand by thermal comfort ? How is it achieved through structural and mechanical methods ? 14
  
4. What do you understand by traditional and contemporary built environments ? Support with examples found in hot and dry regions. 14

5. Discuss the role of materials in enhancing a building's thermal environment in warm and humid zones. 14
  
  6. What do you understand by solar technology ? Discuss its technical applications in buildings in cold regions. 14
  
  7. Taking an example, elaborate over the implications of climate forces in nature of spaces & forms and elements of built form. 14
-