

**BACHELOR OF ARCHITECTURE  
(BARCH)**

**Term-End Examination**

**December, 2012**

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

*Time : 3 hours*

*Maximum Marks : 70*

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- Note :** (i) *All question carries equal marks.*  
(ii) *Attempt any five questions.*
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1. Discuss the various elements of climate with respect to site. 14
2. Explain the following terms : 14
  - (a) Bio climatic chart.
  - (b) Corrective Effective Temperature.
  - (c) Latent Heat.
  - (d) Shading Devices.
3. What do you understand by thermal control ? 14  
How this is achieved by mechanical means ?
4. What do you understand by ventilation ? Explain 14  
the importance of natural ventilation in a building.

5. Discuss the concepts of building design for hot and dry climate. **14**
  
  6. What is solar passive system ? Explain the techniques to achieve solar passive cooling in warm period. **14**
  
  7. What do you understand by "North Light" ? Discuss the importance of North Light in various built forms and the functions associated. **14**
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