

## ***B. Tech Degree III Semester Examination, November 2009***

### **CE 305 HABITAT ENGINEERING**

*(Common for 1999 & 2002 Schemes)*

Time : 3 Hours

Maximum Marks : 100

- I. (a) Differentiate between microclimate and macroclimate of a region. Illustrate with suitable examples. (10)  
(b) Enumerate the various elements of climate. Explain *any two* of them in detail. (10)  
**OR**
- II. (a) Write short notes on : (20)  
(i) Psychometric chart  
(ii) Bioclimatic chart  
(iii) Tropical climate and site climate.
- III. Explain the various factors affecting human comfort. Describe their role in achieving natural ventilation. (20)  
**OR**
- IV. (a) Enumerate the requirements of a good ventilation system. Briefly explain. (10)  
(b) Discuss the different mechanical systems of ventilation. (10)
- V. What is solar control? Explain the various methods. (20)  
**OR**
- VI. What are the considerations to be taken while designing a building to withstand lightning, earthquake as well as hurricanes? (20)
- VII. (a) What are the objectives of National Housing Policy? (10)  
(b) What is the role of housing in the economic development of a country? (10)  
**OR**
- VIII. Write short notes on : (20)  
(i) Slum Improvement Schemes  
(ii) Role played by State Housing Boards  
(iii) National Housing Bank.
- IX. Success of a housing scheme depends on striking a proper balance between cost reduction techniques and use of appropriate technology. Comment on the statement. (20)  
**OR**
- X. (a) How do you assess the housing need? Explain with reference to rural and urban areas. (10)  
(b) Enumerate the different legislations, applicable while implementing a town planning scheme. Briefly explain the steps involved. (10)

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