

B. Tech Degree III Semester Examination, December 2006**CE 305 HABITAT ENGINEERING***(1999 Admission Onwards)*

Time : 3 Hours

Maximum Marks : 100

- I. (a) What are the factors causing deviations of the urban climate from the regional macroclimate? Explain. (10)
 (b) Explain the important climate regions of the world. (10)
OR
- II. (a) Explain the stages in the development of a bioclimatic chart. (8)
 (b) Explain the factors affecting human comfort. (12)
- III. (a) Explain the salient features of window design for natural ventilation in the tropics. (12)
 (b) With neat sketches explain the airflow pattern inside a building. (8)
OR
- IV. Write short notes on:
 (i) cross ventilation
 (ii) requirements of a good ventilation system
 (iii) choice between natural and artificial ventilation (20)
- V. (a) What are the commonly used techniques for fungal protection of structures? (10)
 (b) Write short note on lightning protection. (10)
OR
- VI. (a) With suitable sketches explain the sun protection devices. (12)
 (b) Explain the different means of heat flow through the elements. (8)
- VII. (a) Discuss the role of co-operatives in housing. (8)
 (b) Explain the salient features of national housing policy. (12)
OR
- VIII. Write short notes on:
 (i) Economic and social aspects of housing
 (ii) Slum improvement schemes
 (iii) Housing need and housing supply (20)
- IX. What is meant by appropriate technology? Explain the use of this technology in the construction of houses in rural areas. (20)
OR
- X. Write short notes on:
 (i) Expectations from rural and urban housing
 (ii) Town planning acts
 (iii) Housing need of modern family (20)

