

B.Tech Degree III Semester Examination November 2005

CE 305 HABITAT ENGINEERING

(1999 Admissions onwards)

Time : 3 Hours

Max. Marks:100

- I What are the elements of climate? Explain. Explain the various factors that affect the microclimate. (20)
- OR**
- II Write *Short Notes* on:
- i) Temperate and tropical climate
 - ii) Application of bio climatic chart
 - iii) Heat balance of body (20)
- III a) What are the factors affecting human comfort? Explain. (10)
- b) Explain the salient features of window design for natural ventilation in tropics. (10)
- OR**
- IV Write *Short Notes* on:
- i) Requirements of good ventilation system
 - ii) Natural and artificial ventilation
 - iii) Air flow pattern inside a building (20)
- V Discuss the measures to be taken in the design of buildings against earthquakes. (20)
- OR**
- VI a) Explain the dynamics of air and water on the earth surface. (10)
- b) Explain the various methods for termite and fungal protection in buildings. (10)
- VII Write *Short Notes* on:
- i) Slum improvement
 - ii) Housing need and supply
 - iii) National housing policy (20)
- OR**
- VIII Describe the various housing schemes in India. (20)
- IX a) Planning aspects of building affect the cost effectiveness. Explain. (7)
- b) Discuss a few cost effective techniques adopted in building construction. (13)
- OR**
- X a) Explain the importance of building bye-laws. Mention the building bye-laws for residential area of a typical town planning scheme. (13)
- b) Explain the expectations from rural and urban housing. (7)

