

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN  
CIVIL ENGINEERING  
JUNE 2001

**CE 305 HABITAT ENGINEERING**  
(1998 Admissions)

Time: 3 Hours

Maximum Marks: 100

- I. Write short notes on any three of the following:
- (i) Urban climate
  - (ii) Temperature inversion
  - (iii) Wind data and its measurement
  - (iv) CET & ET
  - (v) Comparison and classification of climates (15)
- II. Explain the different types of shading devices. (15)
- OR**
- III. Discuss solar temperature concept and solar gas factor. (15)
- IV. Explain design considerations of passenger elevators. (20)
- OR**
- V. Write short notes on the following:
- (i) Escalators
  - (ii) Arrangement of lifts
  - (iii) Ramps (7+7+6=20)
- VI. Write short notes on the following:
- (i) Natural and artificial ventilation
  - (ii) Heat exchange of building (15)
- OR**
- VII. With a neat sketch explain the details of water supply and sewage disposal arrangement for a residential building. (15)
- VIII. Write notes on the following:
- (i) Glare
  - (ii) Inverse square law and Law of Cosine as applied in lighting. (15)
- OR**
- IX. What do you mean by 'day light factor'? Explain its various components. (15)
- X. What are the general principles to be followed in the accoustical design of a recording studio? (20)
- OR**
- XI. Explain the various methods for sound insulation in buildings. (20)

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