

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN
CIVIL ENGINEERING (HABITAT ENGINEERING AND CONSTRUCTION
MANAGEMENT), JUNE 2002

CE 305 HABITAT ENGINEERING II
(1995 Admissions)

Time: 3 Hours

Maximum Marks: 100

(All questions carry EQUAL marks)

- I. Write short notes on:
- (i) Atmospheric Humidity and its measurement
 - (ii) Influence of Topography on climate
 - (iii) Condensation and precipitation
- OR
- II. How thermal balance of human body is maintained?
- III. What is solar radiation and discuss combined effect of solar radiation and ambient air temperature?
- OR
- IV. Discuss the various shading devices and its design aspects.
- V. Describe the heat flow patterns inside buildings.
- OR
- VI. Write short notes on:
- (i) Stairs
 - (ii) Elevators
 - (iii) Lifts
 - (iv) Ramps
- VII. Describe the factors governing the selection between natural and mechanical ventilators.
- OR
- VIII. Describe the standard requirements of sewage disposal arrangements for Hostels.
- IX. Describe the external features that affect natural lighting.
- OR
- X. Differentiate the properties of Day light and artificial light, compare the various luminaires with respect to efficiency, colour rendition and voltage.
- XI. How the properties of sound affected in an enclosed environment?
- OR
- XII. What is the principles of acoustic design?

