

SECOND YEAR B.ARCH. DEGREE EXAMINATION, APRIL/MAY 2005**CLIMATOLOGY**

(1998 Scheme)

Time : Three Hours

Maximum : 100 Marks

Support the answers with suitable sketches.

- I. Write short notes on any *five* of the following :—
- | | |
|-------------------------------|-----------------------|
| 1 The coriolis forces. | 2 Warm Humid Climate. |
| 3 Heat balance in human body. | 4 Comfort scale. |
| 5 Precipitation. | 6 Air movement. |
| 7 Balancing in time. | |
- (25 marks)
- II. (a) Briefly explain the aspects of climate which affects human comfort and the use of buildings.
- Or*
- (b) Explain the local factors that enable the architect to make an assessment of a given site climate with reasonable accuracy.
- III. (a) Explain the three major climatic zones.
- Or*
- (b) Explain the form and planning principles in Hot Dry climates.
- IV. (a) What is the basic thermal processes of the human body.
- Or*
- (b) Explain any *four* indices of Thermal comfort.
- V. What are the main objectives of thermal controls and briefly explain the passive and active means of achieving the same.
- Or*
- VI. (a) What is the important consideration when the architect is to design a cluster or a whole settlement.
- Or*
- (b) What are the main types of termite concerned with buildings and briefly explain the type of treatments against them.

(4 × 15 = 60 marks)