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Third Semester B.Arch. Degree Examination, June/July 2019
Climatology

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. List major and subzones of Tropical climate. (05 Marks)
b. Briefly explain the characteristics of any one zone. (15 Marks)
- 2 Explain the thermal balance between Human body and its environment. (20 Marks)
- 3 Explain the heat exchange of building with the outdoor environment. (20 Marks)
- 4 a. What is day light factor? (05 Marks)
b. Explain its various components. (15 Marks)
- 5 a. Explain various functions of ventilation in buildings. (10 Marks)
b. Explain with neat sketches, the effect of openings on internal air flow. (10 Marks)
- 6 Write short notes on :
a. Time - lag. (05 Marks)
b. Wind scoop. (05 Marks)
c. The Kata thermometer. (05 Marks)
d. Sun – path diagram. (05 Marks)
- 7 Write short notes on :
a. Shading devices. (05 Marks)
b. Bio climatic chart. (05 Marks)
c. Climatic zones of India. (05 Marks)
d. Site climate. (05 Marks)
- 8 Explain the design considerations for building in Hot – Dry climate. (20 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.