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Third Semester B.Arch. Degree Examination, June/July 2017
Climatology

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. List and explain briefly characteristics of tropical climate. (05 Marks)
b. Explain in detail the characteristics of hot and dry climate and warm-humid climate. (15 Marks)
- 2 What are elements of climate? Explain various measuring instruments used with help of sketches. (20 Marks)
- 3 What is meant by "Site climate"? Explain various factors influencing site climate with neat sketches. (20 Marks)
- 4 Explain the functions of natural ventilation. Discuss various considerations involved in designing the buildings for satisfactory natural ventilation. (20 Marks)
- 5 Explain briefly:
 - a. Kata thermometer
 - b. Time lag
 - c. Bioclimatic chart
 - d. Weather station. (20 Marks)
- 6 Explain daylight factor, sky component, external reflection and internal reflection. (20 Marks)
- 7 a. Name and sketch with examples, types of shading devices. (08 Marks)
b. Explain the used and components of sun path diagram. (12 Marks)
- 8 Explain in detail design considerations for hot-dry climate region. (20 Marks)

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