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Third Semester B.Arch. Degree Examination, Dec.2015/Jan.2016
Climatology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 Name four elements of climate that influence thermal comfort. Name with sketches measuring instruments and measuring units of these elements. (20 Marks)
- 2 a. Discuss site climate. (08 Marks)
b. Explain the various factors that influence site climate. (12 Marks)
- 3 a. Explain human comfort conditions. (08 Marks)
b. Discuss bioclimate chart and elaborate its uses in climatic design. (12 Marks)
- 4 List different types of shading devices used in building. Explain the designing of any one type of shading devices with neat sketches. (20 Marks)
- 5 a. What are functions of ventilation? (06 Marks)
b. Discuss internal airflow patterns with respect to location of openings, external features and wind direction. (14 Marks)
- 6 a. Explain the advantages and disadvantages of day-lighting. (08 Marks)
b. Define daylight factor and explain the components. (12 Marks)
- 7 Write short notes on :
 - a. Temperature inversion
 - b. Weather station
 - c. Wind scoops
 - d. Time lag.(20 Marks)
- 8 Explain the design considerations for buildings in hot-dry climate with the help of sketches. (20 Marks)

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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.