Third Semester B.Arch. Degree Examination, June/July 2016 Climatology

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions.

- a. What is tropical climate? Give the types of tropical climate. (05 Marks)
 b. Explain the characteristics of types of tropical climate. (15 Marks)
- 2 Explain the climate elements and give measuring instruments with the help of neat sketches.

 (20 Marks)
- a. What are the local factors that influence site climate? Explain with sketches.
 b. Explain Urban climate.
 (12 Marks)
 (08 Marks)
- What are the functions of natural ventilation? Explain with sketches design considerations effects of opening & external features on internal air flow. (20 Marks)
- 5 Briefly explain:
 - a. CET
 - b. Bioclimatic chart
 - c. Time lag
 - d. Kata thermometer.

(20 Marks)

- 6 a. Draw and name parts of solar chart. (05 Marks)
 - b. Explain the two sun angles that help in the design of shading devices. (15 Marks)
- 7 Explain:
 - a. Temperature inversion
 - b. Wind catchers
 - c. Design of Roof in Hot-dry climates
 - d. Plan form for warm-humid climates.

(20 Marks)

8 Explain with neat sketches and examples the design considerations of buildings in hot and dry climates.
(20 Marks)

* * * * *