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Third Semester B.Arch. Degree Examination, Dec.2017/Jan.2018 Climatology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- a. What are the major climatic zones in India? Explain the features of any one in detail.

 (10 Marks)
 - b. What are the climate data required to understand the climatic characteristics of a place?

 Describe with example.

 (10 Marks)
- Explain the term 'Thermal comfort' and its importance in the thermal balance between the human body and the environment. (20 Marks)
- What is a weather station? What elements of climate recorded here? Explain with mention of the instruments used. (20 Marks)
- What are the heat exchange processes of buildings with the outdoor environment? (20 Marks)
- 5 a. What are the two angles that determine the position of the sun with respect to a given point on the surface of the earth? Explain with sketches. (10 Marks)
 - b. Explain the use of a sun path diagram in climatic design.
- What is the function of ventilation? (10 Marks)

 Explain the effect of openings and external features on internal air flow. (10 Marks)
- What are the factors in formulating a climate responsive design proposal for a hot dry climatic region? (20 Marks)
- 8 Write short notes on:
 - a. Daylight factor
 - b. Composite climate
 - c. Effective temperature
 - d. Evaporative cooling.

(20 Marks)

(10 Marks)

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