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BARCH
(SEM IV) THEORY EXAMINATION 2017-18
CLIMATOLOGY

Time: 3 Hours

Total Marks:50

Notes:

- Do **any Five** questions. **Question 1** is compulsory.
- Assume missing data, wherever necessary.
- Draw neat sketches wherever required.

1. Write short notes on following : **(5 X 2= 10)**
 - a. Psychometric chart
 - b. Bio-Climatic chart
 - c. Stevenson screen
 - d. Wet Bulb thermometer
 - e. Corrected Effective Temperature.

2. Enumerate the typical features of hot and dry climate, Explain with the help of neat sketches and short notes, what measures an architect should take for a Climate responsive design of project. **(10)**

3. (a) Why do architects need to study Building **(5)**
(b) What do you understand by day light factor? Explain. **(5)**

4. Enumerate the typical features of hot and dry climate, Explain with the help of neat sketches and short notes, what measures an architect should take for a Climate responsive design of project. **(10)**

5. What are different types of Shading Devices. Explain the use of solar chart and shadow angle protector for working out shading devices for buildings. Give Illustrated examples. **(10)**

6. (a) What is human heat balance and thermal stress index. **(5)**
(b) Explain Radiative cooling and Evaporative cooling. **(5)**