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B. Arch. Examination 2021-22

(Even Semester)

CLIMATOLOGY

Time: Three Hours

[Maximum Marks :60

Note: Attempt all questions.

SECTION-A

1. Define the following:

 $1 \times 8 = 8$

- (a) Climate
- (b) Seasonal changes
- (c) Psychometric chart
 - (d) Temperature
 - (e) Daylight factor
 - (f) Solar azimuth

- (g) Courtyard
- (h) Trombe wall

SECTION-B

- 2. Attempt any three parts of the following: $4 \times 3 = 12$
 - (a) What is human hear balance and thermal stress index?
 - (b) Describe in detail the factors affecting climate on a global scale.
 - (c) Explain the use of solar chart and shading devices for buildings. Give illustrated examples.
 - (d) What do you understand by orientation? Explain in detail the factors influencing orientation of built form with respect to sun and wind.

SECTION-C

Note:-Attempt any two questions.

 $2 \times 20 = 40$

3. 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.

- 4. Enumerate climate of India and discuss about the different type of climate in India.
- 5. What do you understand by ventilation and air movement around a building. Also enumrate the factors affecting indoor air of a built form.

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