GBCS SCHEME



USN

Third Semester B. Arch. Degree Examination, June/July 2024 Climatology

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. Explain with neat sketches when necessary.

Module-1

1	Explain the characteristics of Tropical composite climate.	
		(20 Marks)

OB

What are the factors which influence site "Micro Climate". (20 Marks)

Module-2

3 Explain the components and application of sun path diagram. (20 Marks)

OR

With a neat diagram, explain Thermal Balance Equation for a building. (20 Marks)

Module-3

- Write short notes on:
 - a. "U" Value
 - b. Conductance
 - c. Time Lag
 - d. Periodic Heat Flow.

(20 Marks)

OR

6 Explain the construction techniques to improve the thermal performance of walls. (20 Marks)

Module-4

With neat sketches, explain the effect of openings on internal AIR flow. (20 Marks)

OR

8 How is Natural Ventilation achieved in buildings?

(20 Marks)

Module-5

9 What are the techniques to optimize daylight in buildings?

(20 Marks)

OR

With examples, explain climate design considerations for "Warm and Humid" climate.

(20 Marks)