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18ARC33

Third Semester B.Arch. Degree Examination, Jan./Feb. 2021 Climatology

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Draw neat sketches wherever necessary.*

Module-1

1 Explain in detail the factors which influence climate. (20 Marks)

OR

2 Differentiate between tropical warm and humid and tropical hot and dry climate. (20 Marks)

Module-2

3 Write short notes on:

- a. Special heat (05 Marks)
- b. Thermal comfort indices (05 Marks)
- c. Sol air temperature (05 Marks)
- d. Time Lag (05 Marks)

OR

4 Explain heat exchange process between building and its surroundings. (20 Marks)

Module-3

5 Write short notes on:

- a. Conductance (05 Marks)
- b. Resistance (05 Marks)
- c. U value (05 Marks)
- d. Convection (05 Marks)

OR

6 Explain periodic heat flow. (20 Marks)

Module-4

7 What are the methods for achieving natural ventilation in a building? (20 Marks)

OR

8 Explain the effect of openings on air flow. (20 Marks)

Module-5

9 What are the factors which influence illumination quality in building interiors? (20 Marks)

OR

10 With neat sketches, explain climate design considerations for hot and humid climate. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.