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Roll No.

18BB2204

M. Arch. EXAMINATION, 2020

(Second Semester)

(C Scheme) (Re-appear)

M. ARCH. (SUSTAINABLE ARCHITECTURE)

MARC608C

Building Performance : Measurement and
Analytical Methods

Time : 2½ Hours]

[Maximum Marks : 50

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

1. Elaborate on objectives of building performance assessment for sustainable practices in architecture. Illustrate your answer with examples.
2. Compare and contrast Energy efficiency and Thermal comfort criteria for achieving rating and mandatory clauses as specified in IGBC and GRIHA rating systems.
3. Tabulate the database required for conducting energy audit of a given building for given pro forma of energy audit prescribed by HAREDA.
4. What are different preliminary energy audit and detailed energy audit methods ?
5. What is Post Occupancy Evaluation ? Discuss benefits and limitations of POE for building assessment.
6. Highlight statistical methods employed to analyze data from POE surveys.

7. Discuss strategies adopted for passive and active passive design strategies for achieving energy efficiency in buildings.
8. Discuss whole building simulation approach used in ECBC 2017 for assessing energy efficiency saving measures.