



QP CODE: 25802776



Reg No :

Name :

MASTER OF ARCHITECTURE DEGREE EXAMINATION, JUNE 2025

First Semester

M.Arch in Advanced Architecture

**Core - 24AA10003 - BUILDING PHYSICS & PERFORMANCE EVALUATION OF
BUILDING**

2024 Admission Onwards

3F545616

Time: 3 Hours

Max. Marks: 100

Section A

Answer any four questions out of five. Each questions carries 10 marks.

1. What are the key components of an integrated approach to environmental design?
2. Evaluate how daylighting, acoustics, and air movement collectively enhance indoor environmental quality.
3. What key factors influence a building's performance—considering function, climate, materials, etc.?
4. What passive and active strategies are considered in the design of an energy-efficient home?
5. What are the major rating systems used for building performance assessment?

(10×4=40 marks)

Section B

Answer any three questions out of four. Each questions carries 20 marks.

6. How do cognitive and analytical models contribute to assessing building performance?
7. What are some commonly used environmental assessment tools, and what are their basic functions?
8. What is the basic process involved in conducting energy simulation using computer-based tools?
9. What are the essential steps involved in conducting a post-occupancy evaluation?

(20×3=60 marks)

