

KATHMANDU UNIVERSITY
End Semester Examination
February, 2025

Marks Scored:

Level : B.Arch.
Year : IV

Course : MEEG 442
Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date 17 FEB 2025

SECTION "A"

[15Q. × 1 = 15 marks]

Choose the most appropriate answer and **mark [X]**.

- Which of the following is NOT a type of mechanical transportation system in buildings?
 Elevators Escalators Dumbwaiters Fire stairs
- Which type of elevator is best suited for a high-rise building with more than 20 floors?
 Hydraulic elevator Gearless Traction elevator
 Dumbwaiter Belt-driven elevator
- What is the standard inclination angle of an escalator in most buildings?
 15° 25° 30° 45°
- What is the primary goal of energy management in buildings?
 To eliminate the use of artificial lighting
 To minimize energy consumption while maintaining comfort and efficiency
 To reduce the number of electrical appliances used
 To completely rely on renewable energy sources
- Which of the following is NOT a key step in a building energy audit?
 Data collection and analysis
 Implementation of energy conservation measures
 Structural load testing
 Identifying areas of energy wastage
- Which building system typically consumes the most energy in commercial buildings?
 Lighting system HVAC system Elevator system Plumbing System
- Which type of compressor is commonly used in residential air conditioning systems?
 Reciprocating Centrifugal Scroll Screw
- What is the main function of a fire sprinkler system?
 To detect smoke and raise an alarm
 To provide water to manually fight fires
 To automatically discharge water when a fire is detected
 To evacuate occupants in case of fire

