

c. Pipe Earthing System

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

d. Faraday's Cage - Lightning Protection Systems.

(20 Marks)

Module-4

- Write short notes on -
- Recommended Lux levels. a.
- b. Integration of Day lighting with Artificial Lighting.
- c. Ambient, Task and Accent lighting.
- d. Indirect & Direct Lighting Luminaries.

- (20 Marks)
- OR For a "Design Studio" of Size - 10m × 20m × 4m with sub areas (Reception + waiting), 8 10 people meeting room work station for 10 people, (Printing area + Library). Design the lighting layout and justify the choice of Luminaries + Lamps, Positioning and
 - spacing, and controls proposed
 - a) Qualitatively.
 - b) Quantitatively.
 - Give the justification using sketches / sections / part plan calculations etc. (20 Marks)

Module-5

- Write short notes on 9
 - LAN Systems a.
 - BMS b.

a.

- Connected load C.
- Demand load d.

(20Marks)

OR

For an Airbnb with one Bed room + one Toilet + kitchenet +utility in Bangalore. 10

- Make Electrical Layout showing -
 - Lights + Controls i)
 - Fans + Controls ii)
 - Specific Equipment socket iii)
 - Extra power sockets iv)
 - Extra Low voltage points V)
 - Main Distribution Board vi)
 - vii) 🔨 Metering Board Ľ

- (14 Marks)
- Make a point matrix and calculate the connected load, Demand Load and total units b. consumption in kWh in the month of NOVEMBER. Assume appropriate wattage ratings, load and diversity factors, and usage hours. (06 Marks)

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