

chool or

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

1 of 2

An office area is 20 meter (Length) \times 10 meter (width) \times 3 meter (Height). Ceiling to desk height is 2 meters. The area is to be illuminated to a general level of 250 Lux using twin lamp 32 watt CFL luminaries with a SHR of 1.25 each lamp has an initial output (efficiency) of 85 Lumen per watt. The lamp maintenance factor (MF) is 0.63, Utilization factor is 0.69 and space height ratio (SHR) is 1.25. Calculate the following :

- a) Total wattage of luminaries fixtures and Lumen/Fixture.
- b) Determine the number of luminaries fixture required for this installation
- c) Calculate the number of luminaries fixtures required along the width of the room
- d) Make a diagrammatic representation of the room showing axial and traverse spacing between the fixtures. (20 Marks)

Module-5

9 Explain the following extra low voltage system.

a) Data cable TV network

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- b) Building automation and security service
- c) Intrusion detection system
- d) Land and telephone system

(20 Marks)

OR

- 10 a. List out the notations and signages used to depict an electrical layout. Also mentions the various heights, at which level you well provide various electrical points. (10 Marks)
 - b. For a typical drawing room of 8m × 10m × 3m with a toilet of 3m × 2m × 3m, make a furniture layout with an electrical layout. Make a table showing various electrical points in the room. (10 Marks)

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