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Fifth Semester B.Arch. Degree Examination, June/July 2024 Building Services – II

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 Define and distinguish any 2 of the following :
- (i) AC and DC – Electricity.
 - (ii) HT and LT Cables.
 - (iii) Current
 - (iv) Voltage
- (20 Marks)

OR

- 2 With a diagram, explain the transmission of electricity from the generating station to homes. Name the parts and voltage levels.
- (20 Marks)

Module-2

- 3 With diagram, explain 2 types of wiring instillation systems in a building-Balten wiring and conduit wiring.
- (20 Marks)

OR

- 4 a. What is renewable energy system? Give examples. (05 Marks)
b. What is 'Net Zero' energy building? What are its characteristics? How is it achieved? (15 Marks)

Module-3

- 5 a. What are protection devices? Give examples. (05 Marks)
b. Write short notes on Fuse, MCB and ELCB. (15 Marks)

OR

- 6 a. What is earthing system? (05 Marks)
b. With a diagram, explain the parts and working of a pipe earthing instillation. (15 Marks)

Module-4

- 7 With diagram, explain how incandescent lamp and Flourescent Lamp works. (20 Marks)

OR

- 8 a. What are the 3 types of lighting methods? (06 Marks)
b. Describe the scheme of illumination for the reception and waiting lobby of a Hotel. Mention the type of luminaries and light fixtures used. Use sketch if necessary. (14 Marks)

Module-5

- 9 a. What is extra low voltage electric system? (04 Marks)
b. What are its characteristics? (10 Marks)
c. Mention 3 applications that work on this system. (06 Marks)

OR

- 10 Draw a 1 bedroom house with electrical layout using standard electrical symbols. Calculate the connected load in the building. (20 Marks)
