CS SCHEME

15ARC53

Fifth Semester B.Arch. Degree Examination, Jan./Feb.2021 **Building Services** - II

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. Draw neat sketches where necessary. Elaborate on the importance of electrical services in 2 building emphasizing on the 1 implications on the design. Enumerate the guidelines laid out by NBC and NEC with respect to electrical design in a (10 Marks) building. OR Write notes on salient aspects of: 2 HT and LT panel. a. Sub stations. b. Transformer. C. Source for electricity generation. (20 Marks) d. Module-2 Discuss the electrical distribution system in a highrise office complex. (12 Marks) 3 a. (08 Marks) What are the basics and highlights of an UPS system? b. OR Write short notes on: Net zero buildings. (10 Marks) a. Renewable energy systems (10 Marks) b. Module Why are protective devices necessary in an electrical system in a building? Demonstrate 5 (20 Marks) with any three in detail. OR What are earthing and lighting protective systems? Discuss each with types, selections, 6 (20 Marks) specifications as per NBC/other relevant codes. Module-4 Discuss the various types of lamps available and their apt applications. What are the possibilities of designing lighting methods for different activities or needs?

(10 Marks)

(10 Marks)

8 Write notes with illustrations on:

Landscape lighting.

(10 Marks)

Systems of Luminaries.

(10 Marks)

Module-5

What do you mean by Extra-Low voltage systems? Discuss the various systems in an 9 (20 Marks) apartment building.

OR

Write notes on: 10

Load estimation and Calculations.

(10 Marks)

Local Building Codes. b.

(10 Marks)

2. Any revealing of identification, appeal to evaluator and /ot 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.