

Fifth Semester B. Arch Degree Examination, Dec.2017/Jan.2018

Building Services – II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- a. What is electricity? Explain with sketch any one method of generating electricity. (05 Marks)
 - b. Explain Sub-station its function and types.

(15 Marks)

- Write short notes on any 5 (five) of the following
- a. Transformer
- b. Generator

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- c. Primary and secondary distribution line
- d. HT and LT cables
- e. Metering Panel and HT panel
- f. A.C and DC
- g. National Electric code and I.S Rules.

(20 Marks)

-Module-2

- 3 a. Explain the electrical wiring system and electrical wiring installation system with sketches.
 (12 Marks)
 - b. List the general ISI Rules related to wiring.

(08 Marks)

OR

- 4 a. What do you mean by Net zero energy building? Explain with a sectional sketch the features of a NZEB Home. (10 Marks)
 - b. What are the various on site and off site renewable energy systems? Explain with sketches.

 (10 Marks)

Module-3

- 5 a. What are protective devices? Why are they necessary for electrical wiring? Explain MCB and ELCB with sketches. (10 Marks)
 - b. Define a Fuse. Explain with sketches any two types of fuses in detail its advantages.

(10 Marks)

OR

6 a. What is Earthing? Why is it necessary? Explain with sketch any one type of earthing.

(10 Marks)

Explain with sketch the method of lighting protection system in a building. Explain the importance of the same. (10 Marks)

Module-4

- 7 a. What is Lighting? Why are the factors contributing to good lighting? (08 Marks)
 - b. Discuss in detail different lighting systems with neat sketches. And their applications.

(06 Marks)

