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MANIPAL UNIVERSITY

FOURTH SEMESTER B. ARCH. DEGREE EXAMINATION - MAY 2017

SUBJECT: BUILDING SERVICES II (ARC-212)
(2010 SHEME)

Wednesday, May 03, 2017

Time: 10:00 - 13:00 Hrs.

Max. Marks: 50

Answer any FIVE questions.

- 1A. Define the term luminaire. List any six different types of luminaires.
- 1B. Briefly describe the High Intensity Discharge (HID) lamps.

(5+5 = 10 marks)

- 2A. Describe the function of an electrical substation in a building and briefly explain each of its components.
- 2B. Explain earthing for a residential building.

(6+4 = 10 marks)

- 3A. List down the information that needs to be provided by the architect for inviting tender from lift installation companies.
- 3B. Explain the fire safety considerations in elevators.

(5+5 = 10 marks)

- 4A. Define an escalator. What are advantages of escalators in comparison with lifts?
- 4B. Explain with the help of sketches any three different typical layout options of escalators.

(4+6 = 10 marks)

- 5. Draw appropriate sketches of the following:
- 5A. Ring or Loop electrical distribution System for large areas
- 5B. Power distribution system starting from generation until the end user
- 5C. Electrical service connection to a building by overhead cables

(10 marks)

- 6. Write short notes on: (any FOUR)
- 6A. Task lighting
- 6B. Passenger elevator
- 6C. CFL
- 6D. Colour Rendering Index
- 6E. Fuses

 $(2\frac{1}{2} \text{ marks} \times 4 = 10 \text{ marks})$