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## MANIPAL ACADEMY OF HIGHER EDUCATION

## THIRD SEMESTER B. ARCH. DEGREE EXAMINATION - NOVEMBER 2019

SUBJECT: ARC-14-207 - BUILDING SERVICES II (2014 SCHEME)

Tuesday, November 12, 2019

Time: 10:00 - 13:00 Hrs.

Max. Marks: 50

- Answer any full FIVE questions.
- Answer all parts of a question.
- Draw neat labelled sketches where ever necessary.
- 1A. Enumerate six types of artificial of lighting fixtures. Explain use and application of any three.
- 1B. Define colour temperature. Explain its important in lighting design.

((3+3)+(2+2) = 10 marks)

- 2A. What are the advantages and dis-advantages of using Concealed conduit wiring?
- 2B. What are MCBs? Explain where and why it is used.

(5+(2+3) = 10 marks)

- 3A. What is earthing? Explain any method of installing earthing with a neat sketch.
- 3B. Develop an electrical layout for a bedroom of size 3.5m × 5.5m with furniture layout and mark the position of lighting fixtures and electrical accessories giving names of each.

((2+2)+6=10 marks)

- 4A. What is meant by handling capacity of lift? How is it calculated?
- 4B. What are the factors to be assessed for ensuring quality of service of lifts in a building?

((2+2)+6=10 marks)

- 5A. Write a short note on Active Fire Protection system.
- 5B. Explain in detail concept of Fire tower with relevant sketches.

(5+5 = 10 marks)

- 6A. Explain the stages in evolution of lifts.
- 6B. What are the consideration for designing a building to maximise daylight?

(5+5 = 10 marks)

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