

CRASH COURSE

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09ARC5.3

Fifth Semester B.Arch. Degree Examination, May 2017 Building Services – III

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from PART-A & PART-B, PART-C is compulsory.

PART – A

- 1 Write short notes on:
- Thermal comfort (05 Marks)
 - Cooling load (05 Marks)
 - Mechanical ventilation (05 Marks)
 - Stack effect (05 Marks)
- 2 Explain with the help of a neat diagram, the parts and working of a window AC unit with respect to summer and winter cycle. (20 Marks)
- 3 Explain the parts and working of a typical chilled water centralized AC plant. (20 Marks)

PART – B

- 4 a. With the help of a neat section, explain the parts of a typical traction lift. (10 Marks)
b. Differentiate between geared and gearless traction elevators. (10 Marks)
- 5 Write short notes on:
- Sky lobby (05 Marks)
 - Hospital lift (05 Marks)
 - Hydraulic elevators (05 Marks)
 - Factors affecting choice of elevators (05 Marks)
- 6 a. Explain with the help of neat sketches the working of an escalator. (15 Marks)
b. Write a note on escalator safety measures. (05 Marks)

PART – C

- 7 Write short notes on any FOUR:
- Fire load
 - Compartmentation
 - Refuge floors
 - Fire detectors
 - Automatic sprinkler system (20 Marks)

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