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09ARC 5.3

Fifth Semester B. Arch Degree Examination, June/July 2015

Building Services - III

Time: 3 hrs.

Max. Marks: 100

- Note :** 1. Answer any FIVE full questions, selecting TWO each from Part-A and Part-B and ONE from Part-C.
2. Draw neat sketches wherever necessary.

PART - A

- 1 a. Explain window Air condition system with sketches. (10 Marks)
b. Explain DX- Air conditioning system with sketches. (10 Marks)
- 2 a. What is meant by mechanical ventilation? Under what conditions artificial ventilation becomes necessary in Building? Explain. (08 Marks)
b. List and explain different systems of mechanical ventilation. (12 Marks)
- 3 Write short notes on :
a) Air handling unit.
b) A.C plant.
c) All water system.
d) Split Air conditioning. (20 Marks)

PART - B

- 4 a. With a neat sketch explain the working of an escalator. (12 Marks)
b. Explain the various factors considered in grouping of elevators. (08 Marks)
- 5 a. Draw the section of passenger lift with recommended dimensions. (12 Marks)
b. Write a note on machine room. (08 Marks)
- 6 Write short notes on :
a) Dumb Waiver.
b) Hospital Lift.
c) Lift well.
d) Factor of safety in lift. (20 Marks)

PART - C

- 7 Write short notes on :
a) Fire detectors.
b) Fire lift.
c) Fire escape stair.
d) Fire protection for multistoried buildings. (20 Marks)
- 8 Discuss the role of an architect in ensuring the fire safety in buildings. (20 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.