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Fifth Semester B.Arch. Degree Examination, Dec.2015/Jan.2016 **Building Services - III**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any TWO questions from Part - A, any TWO questions from Part B and any ONE question from Part - C.

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- a. Explain refrigeration cycle with the help of a schematic diagram. (10 Marks) b. Explain various components of cooling load. (10 Marks)
- a. Explain window air conditioning system, with sketches. (10 Marks) b. Discuss the various systems of mechanical ventilation with sketches. (10 Marks)
 - Write short notes with sketches (any four):
 - a. Clean room.
 - b. Split A.C system.
 - c. Air handling unit.
 - d. Fan Coil Unit (FCU).
 - e. Summer air conditioning.

(20 Marks)

- a. Sketch a typical section through a traction lift and explain various parts. (12 Marks) (08 Marks)
 - b. Explain the quality and quantity of lift services.
- a. Explain working of an escalator, with neat sketches.

b. What is Hydraulic lift? Explain with neat sketches.

(10 Marks)

(10 Marks)

- Write short notes on (any Four):
 - a. Double decker lift.
 - b. Sky lobby,
 - c. Travelators.
 - d. Dumb waiter.
 - e. Capsule lift.
 - f. Paternoster.

(20 Marks)

PART - C

- a. Discuss the role of an architect in ensuring the fire safety in building. 7 (10 Marks)
 - b. What is fireload of a building? List and explain the causes of fire accidents in building.

(10 Marks)

- 8 Write short notes (any four):
 - Sprinkler system.
 - b. Fire escape stair.
 - c. Fire detectors.
 - d. Classes of fire.
 - e. Fire resisting materials.

(20 Marks)