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- b) What is the role of filters in air conditioning?
- c) Enlist the types of building services involved in building management system.

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Total No. of Pages : 02

B.Architecture (2012 & Onwards) (Sem.-6) BUILDING SERVICES-III Subject Code : BACH-605 Paper ID : [72291]

Time: 3 Hrs.

Roll No.

INSTRUCTION TO CANDIDATES :

Total No. of Questions : 08

- Attempt any FIVE questions in all with at least ONE question from EACH UNIT. 1.
- 2. Q.1. is compulsory.
- 3. Support your answers with neat sketches where required.
- Q1. a) What do you mean by Noise reduction factor?

 - d) What is "Sound insulation" and "Sound isolation"
 - e) What do you understand by cooling load?

(S17)-1946

UNIT-I

- Q2. What are the types of air-distribution system used in mechanical ventilation for an enclosed area? Describe with sketches. (12.5)
- Q3. Write short notes on the following :
 - a) Refrigeration cycle
 - b) Air-cooled condenser
 - c) Evaporative cooling

Max. Marks: 60

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(4+4+4.5)

 $(2 \times 5 = 10)$





UNIT-II

- Q4. What is reverberation time? How will you choose the reverberation time in small and big auditorium? Describe briefly how you will determine the reverberation time for a speech room. (12.5)
- Q5. What are the acoustical considerations for the designing of a School building? Explain with neat sketches.
- Q6. Write short notes on any two of the following :
 - a) Acoustical material
 - b) Echoes
 - c) Reflection of sound

(6+6.5)

UNIT-III

- Q7. What is the role of building management system in the various services in a modern building? Discuss in detail the use of information technology for effective communication for building operations and control in response to functional use. (12.5)
- Q8. Discuss in detail about the sensing and auto operational devices with respect to building services that make a building intelligent. Illustrate with suitable examples. (12.5)