

Total No. of Pages : 02

Total No. of Questions : 08

B.Architecture (2012 & Onwards) (Sem.-6)

BUILDING SERVICES-III

Subject Code : BACH-605

M.Code : 72291

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions in all with at least ONE question from EACH UNIT.
2. Select Fourth question from any UNIT.
3. Q.1. Is compulsory.
4. Draw neat sketches where necessary.
5. Assume any missing data/dimension.

Q1. a) What is refrigeration?

b) Explain briefly natural & artificial ventilation.

c) Explain absorption, reverberation time (give formula also).

d) Enlist disadvantages of acoustic materials.

e) Enlist various disadvantages of building management system.

$$2 \times 5 = 10$$

UNIT-I

Q2. Discuss air conditioning with respect to its role & importance along with the principles govern the air conditioning? What is cooling load & air cycle? 12.5

Q3. Explain different types of air conditioning systems with their parts. Also explain where are they used? 12.5

UNIT-II

Q4. Explain the acoustical design considerations for an auditorium with the help of a neat section. Also explain the method of acoustical treatment. 12.5

Q5. What are acoustical materials & their different types available in the market? Explain each along with its application. 12.5

UNIT-III

- Q6. Explain the relevance, importance and scope of building automation. 12.5
- Q7. What is building management system? Explain its functions & applicability to different services. 12.5
- Q8. Explain intelligent buildings along with their concept, applicability & limitations. 12.5

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