

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 08

B.Arch. (Sem.-6)
BUILDING SERVICES-III
Subject Code : AR-330
M.Code : 45048

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions with atleast one from each unit and FIFTH question from any Unit.
2. All questions carry EQUAL marks.
3. Assume any missing data/dimension.
4. Draw neat sketches where necessary.

UNIT-I

1. a) Explain design of lighting system in residences. (5)
b) Explain the effect of voltage fluctuation on lamps & lighting. (5)
2. Explain different types of luminaires along with their efficiency and power consumption. 10

UNIT-II

3. a) Enlist & explain different types of wiring systems used in buildings. (7)
b) What is earthing & explain earth leakage protection? (3)
4. a) Design & draw an electric circuit for a class room of size 9mx 15m having fans and light points. (6)
b) How a building is protected against lightning strikes? (4)

UNIT-III

5. Explain the acoustical design considerations for an auditorium with the help of a neat section. Also explain the reverberation time (give formula also). (10)
6. What are acoustical materials & their different types available in the market? Explain the co-efficiency of each along with their application. (10)

UNIT-IV

7. a) Explain different types of air conditioning systems with their parts. Also explain where they used? (6)
b) Discuss fire alarm systems in a building. (4)
8. Discuss in detail the elevators and escalators for vertical circulation in buildings. (10)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.