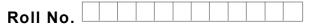
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Total No. of Pages : 01

Total No. of Questions : 08

## B.Arch. (Sem.-4) BUILDING SERVICES-II Subject Code : AR-234 M.Code : 45033

Time : 3 Hrs.

Max. Marks : 50

#### **INSTRUCTION TO CANDIDATES :**

- 1. Attempt any FIVE questions in all with atleast ONE question from EACH UNIT.
- 2. All question carry EQUAL marks.

#### UNIT-I

- 1) Explain the various types of sewage and storm water disposal system for a town with population of one million. (10)
- 2) Explain the sewage disposal system of a hospital building. How it is different from that of a residential multistoried apartment? Explain. (10)
- 3) What is the importance of segregation of waste at the point of collection of medical waste in hospitals? Explain in detail. (10)

## UNIT-II

- 4) Explain various stages of treatment of water before its distribution at city level for human consumption. (10)
- 5) Explain the water distribution system of city of chandigarh. (10)
- 6) Explain the water supply system of fifteen storey high apartment building. Support your answer with various appurtenances in the distribution system and schematic section. (10)

### UNIT-III

- Explain the following : (a) Task light for residential spaces.
  - (a) Task light for residential spaces.(b) Illumination required for commercial and education buildings.(5)
- 8) (a) Explain in detail the calculation of sky component for the calculation of daylight factor. (5)
  - (b) Explain the following :
    - i) Luminance flux (2.5)
    - ii) Illuminance (2.5)

# 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.

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