

## SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the single stack and double stack system for ventilation of house drainage systems.
- Q.24 Draw the Electrical layout plan of a bed room, living room, study room, kitchen and toilet clearly showing the symbolic representation of electrical fixtures.
- Q.25 Describe thermal insulation materials and name at least five different types of thermal insulation materials and their uses.

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## 3rd Sem / Architectural Assistantship

### Subject : Building Services

Time : 3 Hrs.

M.M. : 60

## SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the daily water demand in a Metropolitan city provided with piped water supply where sewerage system is existing:
- a) 75 lpcd                      b) 90 lpcd  
c) 150 lpcd                    d) 185 lpcd
- Q.2 Bottle trap can be used for:
- a) W.B.                          b) W.C.  
c) Floor                        d) Roof
- Q.3 Relatively clean waste water from bath, sink and washing machine is called:
- a) White Water                b) Blue Water  
c) Grey Water                 d) Black Water

- Q.4 MCB stands for:
- a) Minimum Circuit Blockage
  - b) Miniature Circuit Breaker
  - c) Mono Circuit Blocker
  - d) Mega Circuit Breaker
- Q.5 Which of the following is not a part of Building Services?
- a) Plumbing
  - b) Electrical
  - c) HVAC
  - d) FMCG
- Q.6 Which of the following can be defined as a moving staircase?
- a) Lift
  - b) Elevator
  - c) Escalator
  - d) Ropeway

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Underground tanks can be used to store water. (True or False)
- Q.8 Reflux valve allows water to flow through it in both directions. (True or False)
- Q.9 Ground water recharging technique can be used to increase the ground water table of a location. (True or False)

- Q.10 Fire Alarm system is a type of fire detection and warning system. (True or False)
- Q.11 What is an electrical conduit?
- Q.12 Define Mechanical Ventilation?

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the advantages and disadvantages of Continuous v/s Intermittent system of water supply?
- Q.14 What measures can we take to prevent water wastage?
- Q.15 What is the function of a septic tank and a soak pit?
- Q.16 Differentiate between window AC and split AC.
- Q.17 Name any four types of traps useful for toilets, bathroom and kitchen.
- Q.18 Write a short note about Elevators and its types.
- Q.19 Discuss the methods of rainwater harvesting.
- Q.20 What is a fire detection system? How is it useful in a building?
- Q.21 What are the types of Air conditioning systems that can be used in a building?
- Q.22 Draw the cross section of an elevator shaft.