

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

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

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- 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. $(8 \times 4 = 32)$

- 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.