

Q.21 Name any four types of Air conditioners.

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Roll No.

Q.22 Differentiate between an escalator and an elevator.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 Draw the symbolic representation of any ten electrical fittings for different work areas in a residential building?

Q.24 What are the possible causes of fire in any building? Explain the necessary fire safety measures required in a high-rise building.

Q.25 Draw the diagrams of at least five different types of sanitary traps and state the uses of these traps in the drainage system.

3rd Sem / Architectural Assistantship

Subject : Building Services

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(6 \times 1 = 6)$

Q.1 What is the daily water demand in a Town provided with piped water supply but without sewerage system:

- a) 70 lpcd
- b) 95 lpcd
- c) 100 lpcd
- d) 145 lpcd

Q.2 'Q' trap can be used for:

- a) W.B.
- b) W.C.
- c) Septic tank
- d) Bathtub

Q.3 Unit to measure Fire Resistant Rating is :

- a) Newton
- b) Hours
- c) Lux
- d) Metres

Q.4 Which of the following is not an electrical lamp:

- a) Incandescent
- b) CFL
- c) LED
- d) Effluent

Q.5 HVAC in building stands for:

- a) Half Volatile Asbestos Compound
- b) Heating Volatile Aerobic Compound
- c) Heat, Ventilation & Air Conditioning
- d) Hot, Vacuum & Air Conditioned

Q.6 Which of the following is not a type of lift or elevator:

- a) Service lift
- b) Dumb waiter
- c) Capsule lift
- d) Serpentine lift

SECTION-B

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

Q.7 Plumbing deals with the water supply, drainage pipelines and fixtures in a building. (True/False)

Q.8 Inspection chambers are access points to underground pipework which allow maintenance and the removal of blockages. (True/False)

Q.9 'Lumens' is a unit of Illuminance. (True/False)

Q.10 A simple Septic Tank has more than ten compartments. (True/False)

Q.11 What is a Fire Alarm system?

Q.12 What is Rainwater harvesting?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 What are the different sources of water supply to a building?

Q.14 What are the Thermal Insulation materials useful for a building?

Q.15 Differentiate between the Fire Hydrants and Fire Sprinklers.

Q.16 What is a solar water heater and how does it function?

Q.17 Draw the cross section of a Lift core.

Q.18 Name any four Toilet Fixtures.

Q.19 Differentiate between single stack and double stack systems?

Q.20 Write a short note about water recycling.