

- Q.25 Draw the cross section of a septic tank .
 - Q.26 What are the types of traps useful for toilets, bathroom and kitchen ?
 - Q.27 What is the litre per capita per day (lpcd) water demand ?
 - Q.28 Write a short note about Elevators and its types.
 - Q.29 What is a plumbing layout plan of a building floor ?
 - Q.30 Draw a section of lift core.
 - Q.31 Discuss the methods of Rainwater harvesting.
 - Q.32 What is a fire protection system ?
 - Q.33 Draw an electrical layout plan of a living room .
 - Q.34 Draw the sketch of a manhole .
 - Q.35 Differentiate between window AC and split AC.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the single pipe and double pipe plumbing system in a building.

Q.37 Draw the Reflected ceiling plan of a 12m x 20m assembly Hall clearly showing the HVAC and electrical fixtures.

Q.38 Describe the types of thermal insulation materials and their uses.

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**3rd Sem / Architectural
Subject:- Building Services**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Bathroom taps fixed on walls are known as :

 - a) Bib Cock
 - b) Basin Mixer
 - c) Pillar Cock
 - d) Flush Cock

Q.2 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.3 For calculating the person or load handling capacity of a lift the weight per person is taken as:

 - a) 50kg
 - b) 68kg
 - c) 98kg
 - d) 100kg

Q.4 Unit of space ventilation in terms of air changes is :

 - a) ACPH
 - b) PCPH
 - c) ACPM
 - d) PCPM

Q.5 Bottle trap can be used for :

 - a) W.B.
 - b) W.C.
 - c) Floor
 - d) Roof

Q.6 MCB stands for :

- a) Minimum Circuit Blockage
- b) Miniature Circuit Breaker
- c) Mono circuit Blocker
- d) Mega circuit Breaker

Q.7 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.8 STP stand for :

- a) Sewage treatment Plant
- b) Solid treatment Post
- c) Small Tropical Plant
- d) Small Tensile post

Q.9 Unit of sound absorption is :

- a) Sabin b) dB
- c) Hertz d) Seconds

Q.10 Which of the following shall not be considered as an emergency escape mean during the fire hazard in a building:

- a) Staircase b) Ramp
- c) Escalator d) Elevator

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is noise ?

Q.12 Define Reflux valve .

Q.13 Define Lift Pit.

Q.14 What is ground water recharging?

Q.15 Define Reverberation time .

Q.16 What is an Electric Sub-station (ESS)?

Q.17 Define Stack effect.

Q.18 Define Emergency egress.

Q.19 Define mechanical ventilation.

Q.20 Define Solar Panel.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is alternate current and how is it useful in buildings ?

Q.22 What are the factors affecting the stormwater drainage plan of a site ?

Q.23 What is the function of a soak pit ?

Q.24 What is the HVAC duct ? Draw a sketch of any HVAC duct.