

- Q.27 Differentiate between single stack and double stack systems?
 - Q.28 Write a short note about water recycling.
 - Q.29 What is an electric layout plan of any building?
 - Q.30 Elaborate the purpose of Air Conditioning.
 - Q.31 What is fire resistance rating (FRR)? How does it play an important role in fire safety design of buildings?
 - Q.32 Differentiate between an escalator and an elevator.
 - Q.33 Differentiate between an underground and an overhead water tank.
 - Q.34 What are the fire resisting materials?
 - Q.35 What is Manhole and what is its function?

SECTION-D

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

- Q.36 Draw a clear Floor Plan of any residential building and highlight the various building services required for a residential building?

Q.37 What are the possible causes of fire in any building? Explain the necessary fire safety measures required in a high-rise building.

Q.38 Draw the diagrams of sanitary traps and state the uses of at least five different types of traps required in the drainage system.

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3rd Sem / Arch.
Subject:- Building Services

Time : 3Hrs. M.M. : 100

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SECTION-A

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

- Q.1 Pillar cock is useful for:

 - a) W.B.
 - b) W.C.
 - c) Floor trap
 - d) Gully trap

Q.2 What is the daily water demand in a City provided with piped water supply where sewerage system is existing:

 - a) 75 lpcd
 - b) 135 lpcd
 - c) 150 lpcd
 - d) 145 lpcd

Q.3 Grease trap can be used for:

 - a) Kitchen
 - b) W.C.
 - c) W.B.
 - d) Bathroom

Q.4 Which of the following is not a water heating appliance:

 - a) Geyser
 - b) Solar water heater
 - c) Electric water heater
 - d) RO+UV Filter

- Q.5 'P' trap can be used for:
- a) W.B.
 - b) W.C.
 - c) Kitchen sink
 - d) Bathtub
- Q.6 Scour pipe is useful for:
- a) Cleanliness of tank
 - b) Rainwater
 - c) Waste water
 - d) None of the above
- Q.7 Unit of measure sound intensity level is:
- a) Sabin
 - b) dB
 - c) Hertz
 - d) Lux
- Q.8 LED stands for:
- a) Long Elongated Door
 - b) Light Emitting Diode
 - c) Light Elongated Diode
 - d) Long Elevator Door
- Q.9 SI unit of illuminance level is:
- a) Candela
 - b) Lumens
 - c) Lux
 - d) Flux
- Q.10 Location in a building designed to hold occupants during a fire is called:
- a) Assembly hall
 - b) Refuge area
 - c) Service floor
 - d) Resource room

SECTION-B

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

- Q.11 What is acoustics?
- Q.12 Define Sluice valve.
- Q.13 Define Escalator.
- Q.14 What is storm water drainage?
- Q.15 Define Sound Insulation.
- Q.16 What is Rainwater harvesting?
- Q.17 Define cross ventilation.
- Q.18 Define Signages.
- Q.19 Define HVAC.
- Q.20 Define Insulating Material.

SECTION-C

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

- Q.21 What are the advantages and disadvantages of continuous water supply?
- Q.22 What are the factors affecting ventilation in a building?
- Q.23 Differentiate between the continuous and intermittent water supply.
- Q.24 What are service ducts and their types?
- Q.25 Draw the cross section of a septic tank.
- Q.26 Name any five Toilet Fixtures.