

- Q.26 Explain the various causes of fire in a building ? List precautions to be taken .

Q.27 Explain what do you understand by Surface Drainage.

Q.28 Draw a neat sketch of Wash basin and Flushing cistern.

Q.29 What is the main purpose of ventilation system.

Q.30 Differentiate between surface conduit and concealed conduit wiring system.

Q.31 Explain rain water harvesting and its uses.

Q.32 Define acoustical defects and explain any two of them.

Q.33 Differentiate between Split A/C and Central A/C.

Q.34 Draw the neat sketches of escalator.

Q.35 List four characteristics of good traps.

## **SECTION-D**

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

- Q.36 Describe in detail various types of lifts and write their uses.

Q.37 Explain with neat sketches various types of traps used for house drainage.

Q.38 Prepare an electrical layout for a kitchen measuring 3.5 mts x 2.7 mts.

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**Architecture Asstt.  
Subject:- Building Services**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

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

- Q.1 The term \_\_\_\_\_ is used to indicate the science of controlling air with respect to humidity, temperature, movement of air, bacteria content etc.

a) Circulation      b) Air conditioning  
c) Condensation      d) Conditioning

Q.2 The type of wiring depends on \_\_\_\_\_

a) Location and consumer budget  
b) Durability and cost  
c) Safety and appearance  
d) All of the above

Q.3 Sound is measured in

a) Hertz      b) Lux  
c) Decibels      d) Ppm

Q.4 What is called for the collection of rainwater for use ?

a) Rain collection      b) Rain water harvesting  
c) Rain digging      d) Rain water pumping

Q.5 Necessity of ventilation is:

- a) Removal of carbon dioxide
  - b) To supply fresh air
  - c) To reduce humidity
  - d) All of the above
- Q.6 CFL stands for :
- a) Clean Fluorescent Lamp
  - b) Compact Fluorescent Lamp
  - c) Both A and B
  - d) None
- Q.7 It is the SI unit of luminous is called \_\_\_\_\_.
- a) Luminous Flux      b) Luminous intensity
  - c) Illuminance      d) Lumen
- Q.8 Lifts, Elevators, Escalators is one type of
- a) Mechanical System
  - b) Electrical System
  - c) Building operation system
  - d) Multiple services
- Q.9 Objectives of building services :
- a) Provide comfortable living to its occupants
  - b) Improve efficiency of the users
  - c) Maintain health of occupants
  - d) All of the above
- Q.10 Wastewater from different sources like bathroom, kitchens and wash basins is called \_\_\_\_\_.
- a) Sewage                  b) Garbage
  - c) Sullage                  d) Discharge

## SECTION-B

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

- Q.11 Vent Pipe
- Q.12 Humidification
- Q.13 Echo
- Q.14 Lumen
- Q.15 Fire Exit
- Q.16 Distribution Box
- Q.17 Sink
- Q.18 Impact sound
- Q.19 Valve
- Q.20 Name any two sound insulating materials

## SECTION-C

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

- Q.21 Enlist precautions to be taken to avoid electrical accidents.
- Q.22 Explain the role of heat detector in fire fighting system.
- Q.23 Differentiate between Natural and Artificial system of lightning.
- Q.24 Draw any five types of electrical symbols.
- Q.25 Explain how you achieve natural and artificial ventilation in a building.