

- Q.24 What are the different methods of distribution system of water supply in the buildings? Explain with neat sketches
- Q.25 What are the fire fighting system, explain with sketches.

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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 Per capita minimum water required for the flushing as below ?  
a) 45 liters/head/day    b) 75 liters/head/day  
c) 135 liters/head/day    d) 150 liters/head/day
- Q.2 What is the size of rain water pipe ?  
a) 25 mm                      b) 50 mm  
c) 75 mm                      d) 100 mm
- Q.3 Which of the following is not a classification of traps based on their shape ?  
a) P-trap                      b) Q-trap  
c) S-trap                      d) W-trap
- Q.4 The unit of refrigeration is expressed in terms  
a) Ton                           b) Watt  
c) Joule                        d) Smoke

- Q.5 A fire detector cannot detect :
- a) Radiation
  - b) Heat
  - c) Light
  - d) Smoke

- Q.6 Which of most used type of wiring used in the domestic purpose ?
- a) Conduit wiring
  - b) Cleat wiring
  - c) Batten wiring
  - d) None of above

### **SECTION-B**

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

Q.7 Name two device used as sewerage system

Q.8 List two types of fire hydrants

Q.9 List two types of flushing cisterns .

Q.10 Define portable water ?

Q.11 Define waste pipe and soil pipe ?

Q.12 Define HVAC ?

### **SECTION-C**

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

Q.13 What are Importance of the building services in field of architecture, explain with the examples.

Q.14 Define per capita demands? In a town or city for what purpose generally water is required

Q.15 Describe incandescent lamp.

Q.16 Describe heat detectors

Q.17 What is Air Conditioning? Explain its working principle with the neat sketches?

Q.18 What is trap? Explain the various traps with sketches

Q.19 Define the following:

- i) Illumination
- ii) Lux
- iii) Distribution Panels
- iv) MCB'S & ELCBS

Q.20 Explains components with sketches:-

- I) Lift
- ii) Escalators

Q.21 What is rain water harvesting and discuss its importance.

Q.22 What are the causes of fire in the building?

### **SECTION-D**

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

Q.23 Sketch layout plans for the toilet of size 5'-0" X 8'-0" for residential building Showing all the relevant sanitary fixtures with proper dimensions