

- Q.26 Describe any one system of electrical wiring.  
 Q.27 What is an INCANDESCENT LAMP?  
 Q.28 Draw any five types of electrical symbols..  
 Q.29 What are the essential requirements of a good trap.  
 Q.30 Give any four difference between mercury lamp and incandescent lamps.  
 Q.31 What are the advantages and disadvantages of cleat wiring.  
 Q.32 What are two essential of air conditioning system.  
 Q.33 What is services connection.  
 Q.34 Draw Sketch and explain Flushing cistern.  
 Q.35 What are the various types and sizes of pipes used in water supply.

#### **SECTION-D**

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

- Q.36 Explain Fire Fighting services and causes of Fire in building.  
 Q.37 What are the Factors which affect the demand of water in city.  
 Q.38 Explain single stack system and double stack system of house drainage.

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**3rd Sem / Architecture  
Subject:- Building services**

Time : 3Hrs. M.M. : 100

**SECTION-A**

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

- Q.1 The slope of a ramp should not be more than:  
 a) 1 in 35                      b) 1 in 20  
 c) 1 in 15                      d) 1 in 10
- Q.2 In a building to provide ultimate comfort to occupants \_\_\_\_\_ can be used.  
 a) AC                            b) HVAC  
 c) Ventilators                 d) HAC
- Q.3 Which of the following parameters does not affect the lift waiting time?  
 a) Rated load                 b) Number of stops  
 c) Door closing time         d) Handing capacity
- Q.4 In \_\_\_\_\_ System, the use is made of doors, windows, ventilators and skylight to make the room properly ventilated.  
 a) Artificial ventilation  
 b) Air Conditioning  
 c) Natural ventilation  
 d) Mechanical ventilation

- Q.5 The maximum rate of air change is.....  
 a) 30 per min                  b) 30 per hour  
 c) 60 per min                  d) 60 per hour
- Q.6 Rain harvesting increase the ground water levels.  
 a) True                          b) False
- Q.7 MCB Stands for  
 a) Miniature circuit breaker  
 b) Mono circuit breaker  
 c) Mega circuit breaker  
 d) None
- Q.8 DC means.....  
 a) Double current              b) Dry current  
 c) Direct current              d) None
- Q.9 Fuse, LCB, ELCB is one type of  
 a) Mechanical system  
 b) Electrical system  
 c) Building operation system  
 d) Multiple services
- Q.10 The voltage of single phase supply is  
 a) 230V                        b) 220V  
 c) 110V                        d) 500V

### **SECTION-B**

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

- Q.11 Size of rain water pipe \_\_\_\_\_ (75mm/100mm)
- Q.12 The \_\_\_\_\_ pipe is designed to carry liquid waste (waste/soil)

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- Q.13 A System of equipment is used to prevent, extinguish, localize or block fires in enclosed spaces is called as \_\_\_\_\_ (fire fighting system/Ventilation system)
- Q.14 A Fire detector cannot detect \_\_\_\_\_ (Heat/Light).
- Q.15 While calculating the handling capacity of light, the weight of a person is taken as 65 kg.(True/False)
- Q.16 Which of the following parameters does not affect the lift waiting time.(Number of stops/ Handling capacity)
- Q.17 \_\_\_\_\_ insulation is the reduction of heat transfer between objects in thermal contact.(Thermal/Wind)
- Q.18 How many methods of Rainwater harvesting are there?(Two/Three)
- Q.19 The relatively clean wastewater from bath, sink, Washing machines and other kitchen appliances is called (Grey water/Black water)
- Q.20 AC means \_\_\_\_\_ (All current/Alternate current)

### **SECTION-C**

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

- Q.21 Explain the concept of Rain water harvesting.
- Q.22 Which pipes are better and why ? PVC PIPES or C.I PIPES.
- Q.23 What do you understand by acoustic in buildings.
- Q.24 Explain Sound insulation in building.
- Q.25 Draw the neat sketch of escalator and mention it's various components.

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