

- Q.28 What is Ventilation system? What are the requirements of Good Ventilation System? Why Ventilation is necessary?

Q.29 Write 5 differences between single phase and three phase power supply?

Q.30 Explain advantages and disadvantages of continuous and Intermittent water Supply system?

Q.31 Draw Electrical Symbol of  
a) Fan b) Ceiling Mounted Light c) Emergency Light d) Doorbell e) Telephone outlet

Q.32 What is service connection? What are the different components of service connections? Explain with the help of diagram?

Q.33 Enlist the properties of Thermal Insulator?

Q.34 Discuss: a) Automatic Sprinkle System  
b) Halon System

Q.35 Prepare an Electrical layout of a kitchen measuring 3.5 mx 3 mts.

## **SECTION-D**

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

- Q.36 Describe various types of wiring system used for electrical fittings with its advantages and disadvantages?

Q.37 Explain in detail various types of Air Conditioning System?

Q.38 Discuss different types of pipes used in water supply system giving their merits and demerits?

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# **4th Sem / Branch : Architectural Assistantship**

## **Subject:- Building Services**

Time : 3Hrs.

M.M. : 100

## **SECTION-A**

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

- a) Garbage                  b) Stack  
 c) Ferrule                  d) Asbestos
- Q.7** The process of extraction of a certain required amount of water from air is known as \_\_\_\_\_  
 a) Heating                  b) Cooling  
 c) Humidification          d) Dehumidification
- Q.8** The runoff water during and immediately after rain is called \_\_\_\_\_  
 a) Drain                  b) Wastewater  
 c) Storm water            d) Stop cock
- Q.9** A power driven, inclined, continuous stairway used for raising or lowering passengers is known as \_\_\_\_\_  
 a) Insulation              b) Escalator  
 c) Convection             d) Staircase
- Q.10** Sound absorbing materials are used to minimize \_\_\_\_\_  
 a) Noise                  b) Vibration  
 c) Earthquake            d) None

### SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11** A chamber of smaller size mainly provided in house drainage is called \_\_\_\_\_ chamber. (Inspection/Interconnecting)
- Q.12** \_\_\_\_\_ is defined as vibrations or pressure changes in an elastic which are capable of being detected by the ear. (Echo/Sound)
- Q.13** A pipe carrying discharge from W.C. or Urinal is called a \_\_\_\_\_ (Soil pipe/Waste Pipe)
- Q.14** \_\_\_\_\_ is the accumulating and storing of rainwater, used to provide water for irrigation, water for livestock (Rainwater harvesting/Glass wool)
- Q.15** Unwanted sound is known a \_\_\_\_\_ (Noise/Vibration)

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- Q.16** AC stands for \_\_\_\_\_ (Alternate current/Active current)
- Q.17** A \_\_\_\_\_ provided in the kitchen for washing dishes etc. (Trap/Sink)
- Q.18** \_\_\_\_\_ means the prolonged reflection of sound form wall floor or roof of a hall.(Reverberation/Acoustic)
- Q.19** Unit of current is \_\_\_\_\_ (Ampere/Watt)
- Q.20** Under-ground pipe of masonry used for disposal of sewage is called a \_\_\_\_\_ (Sewer/Soak pit)

### SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21** What is Rainwater Harvesting? Why do we need rainwater harvesting ? Explain with the help of diagram?
- Q.22** Write short note on:  
 a) Lift machine  
 b) Natural Ventilation  
 c) Reverberation Time
- Q.23** What are the causes of Electrical Accidents?
- Q.24** Draw symbols for Sanitary and Plumbing Installation of:  
 a) Rectangular Bath  
 b) Double sink unit  
 c) Indian type WC  
 d) Through Lavatory Island Type
- Q.25** Enlist the features of Glass Wool?
- Q.26** What are the features of Escalator?
- Q.27** What is heat? What are the different ways of Heat transfer? Explain Heat Radiation with example?

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