

- Q.25 Define pipe cutter. Explain the process of pipe cutting.
- Q.26 What is rain harvesting? Explain.
- Q.27 Write note on Reciprocating pump.
- Q.28 Explain the working of sluice valve provided in water supply pipe lines.
- Q.29 Explain the “Smoke Test” to check the leakage in sewer line.
- Q.30 Write a short note on “Cesspool”.
- Q.31 Write a short note on “Bath Tub”.
- Q.32 Explain Squat toilet with sketch.
- Q.33 Explain “Mixing Tap”.
- Q.34 Write a short note on “Solar water Heater”.
- Q.35 Write in detail about the modes of heat transfers.

#### **Section-D**

**Note:** Long answer Questions. Attempt any two Questions out of three Questions.  $(2 \times 10 = 20)$

- Q.36 Explain the socket and spigot joint with sketch for pipe jointing. Give its advantages and disadvantages.
- Q.37 Write in details about fire hydrants and its types with diagram.
- Q.38 Explain in brief various stages of construction and laying of sewer lines.

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170765

**Civil Engg.**  
**Subject : Plumbing Services**

**Time : 3 Hrs.**

**M.M. : 100**

#### **SECTION-A**

**Note :** Multiple choice questions. All questions are compulsory.  $(10 \times 1 = 10)$

- Q.1 The spanner which is fully circular closed ring at both ends is called \_\_\_\_\_.  $(CO-1)$
- a) Open ended spanner b) Ring spanner
  - c) Combinations spanner d) None of the above
- Q.2 \_\_\_\_\_ is mostly provided for cast iron pipes.  $(CO-2)$
- a) Bell and spigot joint b) Flanged joint
  - c) Ac pipe joint d) all of the above
- Q.3 When an assembly of fitting on a pipeline makes one section of pipe out of line and parallel to a second section, then it is known \_\_\_\_\_.  $(CO-2)$
- a) Trap b) Nipple
  - c) Offset d) Cross
- Q.4 Check valve is also called \_\_\_\_\_.  $(CO-3)$
- a) Feflux valve b) Non return valve
  - c) Both A & B d) None of the above

Q.5 Method of distribution of water are \_\_\_\_\_.(CO-3)

- a) Gravity system
- b) Pumping system
- c) Gravity& Pumping system
- d) All of the above

Q.6 The vertical distance b/w inside lowest point and inside highest point is called \_\_\_\_\_.  
\_\_\_\_\_.

- a) Floor trap
- b) Gully trap
- c) Water seal
- d) Cesspool.

Q.7 Squat toilet is also known as \_\_\_\_\_.

- a) European style water closet
- b) Indian Toilet
- c) Western style water closet
- d) Flush toilet

Q.8 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.9 Heat always moves from \_\_\_\_\_ to lower temperature.

- a) Higher
- b) Lower
- c) Both
- d) None of these

Q.10 Laying of water pipe is simple in case of \_\_\_\_\_ method.

- a) Grid Iron system
- b) Ring System
- c) Dead End system
- d) None of the above

### Section B

**Note:** Objective types Questions. All Questions are compulsory.  
(10x1=10)

Q.11 Define plier?

Q.12 Define G-I pipe.

Q.13 Define Union.

Q.14 Name the different sources of surface water.

Q.15 Define Artesian well.

Q.16 Define trap.

Q.17 Define water seal.

Q.18 Define Bidet.

Q.19 Define Popup waste.

Q.20 Define convection.

### Section-C

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

Q.21 Explain the term plumbing and role of plumbing.

Q.22 Write note on ratchet brace.

Q.23 Write the process of checking the alignment of pipes.

Q.24 Write the advantages of P.V.C. Pipe.