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**5th Sem / Branch : Civil Engineering**  
**Sub. : Plumbing Services**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 The pipe vice are of \_\_\_\_\_ types. (CO-1)  
a) 2 b) 3  
c) 4 d) 5
- Q.2 Galvanised Iron (G.I.) is coated with \_\_\_\_\_. (CO-2)  
a) Copper b) Lead  
c) Zinc d) Tin
- Q.3 How many pipes are there in a one pipe system? (CO-4)  
a) 1 b) 2  
c) 3 d) 4
- Q.4 Safety valves is also called (CO-3)  
a) Globe valve b) Score valve  
c) Angle valve d) Pressure release valve
- Q.5 Drainage system works under (CO-4)  
a) Pressure b) Gravity  
c) Temperature d) None of these
- Q.6 Which of the following traps is also known as nahni trap? (CO-4)

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- a) Gelly trap b) Floor trap  
c) Slit trap d) Grease trap

- Q.7 The cistern which is operated by chain is called (CO-5)  
a) Ball type cistern b) Pull type cistern  
c) Bell type cistern d) Push type cistern
- Q.8 Which of the following is not a classification of traps based on their shape (CO-4)  
a) P-trap b) W-trap  
c) Q-trap d) S-trap
- Q.9 In a house drainage system the pipe through which human excreta flows is called as (CO-4)  
a) Vent pipe b) Rain water pipe  
c) Soil pipe d) None of these
- Q.10 Hacksaw is a \_\_\_\_\_ tool. (CO-1)  
a) Fitting b) Cutting  
c) Bending d) Holding

**SECTION-B**

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

- Q.11 The spanner which is open on both sides is called \_\_\_\_\_. (CO-1)
- Q.12 \_\_\_\_ joint is used to join cast iron and steel pipe. (CO-2)
- Q.13 Scour valve are provided at \_\_\_\_\_. (CO-3)
- Q.14 Cost of laying water pipe is \_\_\_\_\_ in grid iron method. (CO-3)

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- Q.15 Full form of LDPE is \_\_\_\_\_. (CO-2)  
 Q.16 DWV stands for \_\_\_\_\_. (CO-4)  
 Q.17 A toilet is also known as \_\_\_\_\_. (CO-5)  
 Q.18 There are \_\_\_\_\_ modes of transfer to heat. (CO-6)  
 Q.19 PVC pipes are manufactured using \_\_\_\_\_. (CO-2)  
 Q.20 The capacity of cistern in flush toilet usually varies between \_\_\_\_\_. (CO-5)

### SECTION-C

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

- Q.21 Define holding tools? (CO-1)  
 Q.22 Explain the term plumbing and role of plumbing? (CO-1)  
 Q.23 Describe any five advantages of cast iron pipe? (CO-2)  
 Q.24 Explain water harvesting system? (CO-3)  
 Q.25 Explain any one type of pipe joint? (CO-2)  
 Q.26 Explain septic tank? (CO-4)  
 Q.27 Explain mixing tap? (CO-5)  
 Q.28 Explain the solar water heater? (CO-6)  
 Q.29 Define trap. How will you classify them? (CO-3)  
 Q.30 Explain the mode of heat transfer? (CO-6)  
 Q.31 Name the different type of spanner. Explain any one. (CO-1)  
 Q.32 Explain pipe cutting and pipe bending? (CO-1)

- Q.33 Show the plumbing symbol of tee, gate valve, 90° elbow? (CO-2)  
 Q.34 Explain stop valve and air relief valve? (CO-5)  
 Q.35 Explain wash basin and urinal? (CO-5)

### SECTION-D

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

- Q.36 Explain the construction working and any three advantages of socket and spigot joint? (CO-2)  
 Q.37 Discuss one pipe system and two pipe system of drainage system? (CO-4)  
 Q.38 Explain in details about water heater? (CO-6)