

No. of Printed Pages : 4  
Roll No. ....

220716

**1st Sem / Civil**  
**Subject : Plumbing Services**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory  
(6x1=6)

Q.1 The tool used for tightening and loosening of nuts and bolts of standard size is  
(CO1)

- a) Wrench
- b) Spanner
- c) Water pump plier
- d) Chisel

Q.2 Joint used for cast iron and steel pipe  
(CO2)

- a) Spigot joint
- b) Flanged joint
- c) Nipple joint
- d) Universal joint

Q.3 Safety valve is also called  
(CO3)

- a) Gate valve
- b) pressure relief valve
- c) Globe valve
- d) Needle valve

Q.4 When a \_\_\_\_\_ is broken in a drainage system smell will escape back to the building.  
(CO4)

- a) Water seal
- b) Cesspool
- c) Manhole
- d) None of these

Q.5 Floor trap is also called  
(CO5)

- a) Gully trap
- b) Nahni trap
- c) Intercepting
- d) None of these

Q.6 The heat from sun reaches the earth through \_\_\_\_\_ mode.  
(CO6)

- a) Conduction
- b) Convection
- c) Radiation
- d) All of the above

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory.  
(6x1=6)

Q.7 \_\_\_\_\_ helps in checking the levelling of surface.  
(CO1)

Q.8 PVC stands for \_\_\_\_\_  
(CO2)

Q.9 Impellers is provided in \_\_\_\_\_ pump.  
(CO3)

Q.10 The minimum size trap for residential sink is \_\_\_\_\_  
(CO4)

Q.11 Drainage system works under \_\_\_\_\_  
(CO4)

(1)

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(2)

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Q.12 The \_\_\_\_\_ colour reflects maximum energy on its  
as compared to other color. (CO6)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight  
questions out of ten questions. (8x4=32)

Q.13 Explain the term plumbing and role of plumbing.  
(CO1)

Q.14 Write short note on fitting tools. (CO1)

Q.15 Describe the advantages and disadvantages of steel  
pipes. (CO1)

Q.16 Write a short note on Pipe elbow. (CO2)

Q.17 Write a note on Infiltration galleries. (CO3)

Q.18 Write in detail about fire hydrants. (CO3)

Q.19 What are the requirements of a good trap? Explain.  
(CO4)

Q.20 Explain in Detail about Cesspool. (CO4)

Q.21 Explain water closet and urinal. (CO5)

Q.22 Explain in detail about thermal equilibrium in heat  
transfer. (CO6)

### SECTION-D

**Note:** Long answer type questions. Attempt any two  
questions out of three questions. (2x8=16)

Q.23 Explain Flanged Joint and Expansion joint along  
with their advantages and disadvantages. (CO2)

Q.24 Explain Ring system and Radial system along with  
their advantages and Disadvantages. (CO3)

Q.25 What are manholes? What are its functions?  
Explain? (CO4)