

No. of Printed Pages : 4  
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**Civil Engg**  
**Subject:- Plumbing Services**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 It is not a fixing tools  
a) Wrench                      b) water pump pliers  
c) spanner                      d) chisel
- Q.2 Which is used to cut external threads on cylindrical work pieces ?  
a) tap and wrench              b) pipe wrench  
c) spanner                      d) die stuck
- Q.3 Advantage of P.V.C. pipe is 2  
a) Light weight  
b) Corrosion free  
c) Cost of P.V.C pipe is cheaper than G.I pipe  
d) All the above
- Q.4 The name of valve which prevents the back flow of water is 3  
a) check valve                      b) relief valve

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- c) air inlet valve              d) needle valve
- Q.5 The trap which is provided at the junction of a house drain and a sewer is called 4  
a) S trap                      b) p trap  
c) Intercepting trap              d) both a & b
- Q.6 The type of casing in which circular chamber is provided between the impeller and volute chamber.  
a) vortex  
b) volute casing  
c) casing with guide blades  
d) both a & b
- Q.7 In a septic tank biological reaction take place due to \_\_\_\_\_  
a) aerobic bacteria              b) anaerobic bacteria  
c) both a & b                      d) None
- Q.8 The cistern which is operated by a chain is called  
a) Bell type cistern              b) bowl type cistern  
c) Flat type cistern              d) stall type cistern
- Q.9 Nahani trap is also known as:  
a) Gully trap                      b) Running trap  
c) Floor trap                      d) Intercepting trap
- Q.10 The most convenient form of heat is  
a) Electricity                      b) Gas  
c) Oil                              d) Both b & c

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### SECTION-B

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

- Q.11 The spanner which is open both sides is called \_\_\_\_\_
- Q.12 L.D.P.E stands for \_\_\_\_\_
- Q.13 \_\_\_\_\_ joint is mostly provided for cast iron and steel pipe.
- Q.14 What distribution system is suitable for towns growing irregularly?
- Q.15 Impellers is provided in \_\_\_\_\_ pump.
- Q.16 The trap which is used to receive waste water from wash basin is \_\_\_\_\_
- Q.17 The sewers of smaller sizes are joined together by \_\_\_\_\_
- Q.18 Define Bidet.
- Q.19 In western style water closet, flushing cistern provided at the height of \_\_\_\_\_
- Q.20 Instantaneous water heater is used where required quantities of water is \_\_\_\_\_

### SECTION-C

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

- Q.21 Write the rules to be followed for designing and installing plumbing system.
- Q.22 Explain different types of fitting tools.

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- Q.23 What is socket and spigot joint. Draw a neat sketch?
- Q.24 Explain the pipe cutter and process of pipe cutting.
- Q.25 How will you check alignment of pipes.
- Q.26 What are the advantages and disadvantages of cast iron pipe?
- Q.27 Write in details about fire hydrants.
- Q.28 Draw the figures of Dead end system and grid iron system
- Q.29 What point should kept in mind while fixing accessories?
- Q.30 Write a short note on Cesspool.
- Q.31 Explain floor trap with sketch.
- Q.32 What you mean by sanitary fittings and fixtures? Name the various appliances used for this.
- Q.33 Write a note on Solar water heater.
- Q.34 Write in detail about the modes of heat transfer.
- Q.35 Explain the process of pipe cutting.

### SECTION-D

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

- Q.36 Explain the different type traps with neat sketch.
- Q.37 What is pipe and explain different types of pipe?
- Q.38 Describes the operations to be followed while laying of underground pipeline.

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