

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

180754

**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

- 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

(1)

180754

(2)

180754

## **SECTION-B**

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

- 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.  $(12 \times 5 = 60)$

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

- 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 be kept in mind while fixing accessories?
- Q.30 Write a short note on Cesspool.
- Q.31 Explain floor trap with sketch.
- Q.32 What do 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.  $(2 \times 10 = 20)$

- 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.