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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 $(10 \times 1 = 10)$

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)

- 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. $(10 \times 1 = 10)$

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)

(1)

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(2)

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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 types of spanner. Explain any one. (CO-1)
Q.32 Explain pipe cutting and pipe bending? (CO-1)

- Q.33 Show the plumping 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)