

Time: 2 Hours**Max. Marks: 100****Note: Attempt all Questions. All Questions carry equal marks. Choose the correct answer.**

1. In general the number of wheels in a pipe cutter are —
 - a) Four
 - b) Three
 - c) One
 - d) Two

2. PVC pipes are manufactured using —
 - a) Nylon
 - b) Rubber
 - c) Polyvinylchloride
 - d) Plastic

3. When a pipe is cut a ridge is left on the inside of cap this is called
 - a) Bruise
 - b) Bridge
 - c) Burr
 - d) Base

4. G.I. pipe sockets are designated by —
 - a) Its nominal bore
 - b) Its length
 - c) Nominal bore of pipe
 - d) Its weight

5. The commonly used flux in brazing is
 - a) Rosin
 - b) Zinc chloride
 - c) Borax
 - d) Lead sulfide

6. The type of pipe which can be easily cut by pipe cutter is —
 - a) Lead
 - b) Copper
 - c) G.I.
 - d) All of these

7. Which one the following drilling machine is used for drilling holes where electricity is not available?
 - a) Bench drilling machine
 - b) Pillar drilling machine
 - c) Radial drilling machine
 - d) Ratchet drilling machine

8. When an object undergoes deformation due to stress within elastic limit it is called —
 - a) Permanent deformation
 - b) Semi permanent deformation
 - c) Temporary deformation
 - d) All of these

9. Which one contains higher percentage of carbon?
 - a) Stainless steel
 - b) Low carbon steel
 - c) Cast Iron
 - d) None of these

10. Purer the metal, higher is
 - a) Electrical conductivity
 - b) Melting point
 - c) Thermal conductivity
 - d) None of these

11. Flux in the soldering is used for
 a) To heat the joint
 b) Have spigot and socket ends
 c) To avoid oxidation
 d) None of these
12. Stoneware Pipes
 a) Have no grooves at their ends
 b) To heat the solder
 c) Have glazing at spigot
 d) None of these
13. A _____ is a form of ball valve used to control the flow of a liquid or gas.
 a) Tap
 b) Pipe
 c) Drainage
 d) Stop cock
14. The maximum stress that a metal can withstand before destruction is called
 a) Tensile strength
 b) Ultimate strength
 c) Shear strength
 d) None of these
15. Ceramic material is
 a) Ferrous
 b) Non ferrous
 c) Non metallic
 d) None of these
16. Which one of the following is the capacity of the metal to withstand elastic deformation?
 a) Ductility
 b) Strength
 c) Toughness
 d) Stiffness
17. Which one of the following is the chemical property of metal?
 a) Elasticity
 b) Malleability
 c) Corrosiveness
 d) Hardness
18. Which one of the metal is corrosion-resistant?
 a) Aluminum
 b) Tin
 c) Copper
 d) Mild steel
19. Brass is an alloy of —
 a) Copper and Tin
 b) Lead and Tin
 c) Copper and Silver
 d) Copper and Zinc
20. Which one of the following properties offers resistance to abrasion?
 a) Malleability
 b) Toughness
 c) Ductility
 d) Hardness
21. Galvanised iron is coated with
 a) Tin
 b) Zinc
 c) Lead
 d) Copper
22. Which metal is abundant in earth crust?
 a) Calcium
 b) Sodium
 c) Iron
 d) Aluminum
23. In distribution pipes, drain valves are located
 a) At junctions
 b) At summit
 c) At lower joint
 d) Any where

24. Priming a centrifugal pump may not be necessary, in case the pump is located
- At less than 10m height above the reservoir level
 - At less than 5m height above the reservoir level
 - Immediately above the reservoir level
 - Below the reservoir level
25. The distribution of water by gravity is
- Not reliable
 - Very difficult to maintain
 - Is easy if the source is at height
 - Costly
26. A pump having impeller is
- Displacement pump
 - Reciprocating pump
 - Centrifugal pump
 - centripetal pump
27. The two sub systems in home plumbing
- Hot and cold water
 - Low pressure water and high pressure water
 - In coming fresh water and outgoing waste water
 - None of the above
28. The minimum diameter of sewer pipe is:
- 1 cm
 - 5 cm
 - 10 cm
 - 15 cm
29. Pump commonly used for lifting water in water supply mains is:
- Axial flow pump
 - Centrifugal pump
 - Reciprocating pump
 - Rotary type pump
30. Suction lift of the pump depends upon:
- Atmospheric pressure
 - Water temperature
 - Frictional losses
 - Velocity of water in suction pipe
31. Air relief valves in water supply pipe lines are provided at:
- Pipe bends
 - Pipe joints
 - Summits
 - Low points
32. With reference to water storage, ESR stands for:
- External storage reservoir
 - Extreme storage reservoir
 - Extra storage reservoir
 - Elevated storage reservoir
33. Sump is constructed —
- Above ground level
 - Below ground level
 - At elevated level
 - At roof level
34. What degree of pressure is required to ensure smooth drainage?
- High pressure
 - Low pressure
 - It is matter of gravity
 - None of these
35. For centrifugal pumps:
- Limited space is required
 - Initial cost is low
 - Steady discharge is obtained
 - All of these

36. Reciprocating pump
- a) Are not suitable for variable heads
 - b) Are costlier than centrifugal pump
 - c) Produce pulsating flow
 - d) All of these
37. What type of bacteria waste in percolation area?
- a) Fungi
 - b) Aerobic
 - c) Lime
 - d) Anaerobic
38. One of the oldest materials used for sewer lines which are highly resistant to most acids is
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- a) Vitrified clay pipes
 - b) Lead pipe
 - c) Brass pipe
 - d) Rubber pipe
39. The type of layout system of pipes to be adopt depends upon
- a) Topography of the town
 - b) Location and elevation of source of supply
 - c) Quantity to be supplied
 - d) all of the above
40. Hardness of water is expressed in terms of
- a) Percentage
 - b) Fraction of harness causing solids to total solids
 - c) Parts per million or mg/liter of calcium carbonate
 - d) None of the above
41. As compared to cast iron pipes, steel pipes are
- a) Stronger
 - b) Heavier
 - c) Costlier
 - d) All of these
42. What is provided in the cistern of water of a flush toilet which turns the water off when it is full?
- a) Control valve
 - b) Float valve
 - c) Control tap
 - d) Float ball
43. Sanitary sewage is also known as
- a) Domestic sewage
 - b) Plumbing waste
 - c) Pipe sewage
 - d) All of these
44. Indian type toilet is also called
- a) Spat toilet
 - b) Squate toilet
 - c) Sitting toilet
 - d) Sprout toilet
- 45 In a mixing type, the hot water connection is given to be
- a) Right side of the user
 - b) Left side of the user
 - c) Either side of the user
 - d) None of these
46. The main advantage of an indirect cold water supply is
- a) It costs less to install
 - b) It maintains reserve supply of water
 - c) It requires less pipe work
 - d) None of these
47. What triggers a tankless water heater to begin heating water?
- a) Turning on a hot water tap
 - b) Water pressure
 - c) Thermostate
 - d) None of these
48. With reference to solar heat, what does ETC mean?
- a) Evacuated tube collector
 - b) Extra tube Collector
 - c) Elevated tube collector
 - d) None of these

49. Which home appliances use most energy?

- a) Electric dryer
- c) Toaster

- b) Water heater
- d) Refrigerator

50. makes cast-iron brittle and hard.

- a) Manganese and sulphur
- c) Sulphur

- b) Manganese
- d) None of these

