Choose the correct answer.

1. The storage space of a fluid is called ____________.
   a) Strainer                        b) Reservoir
   c) Plug                            d) Pump

2. Viscosity is an internal property of a fluid. It is a measure of its resistance to :-
   a) Current                        b) Light
   c) Sound                          d) Flow

3. Which one of the following reasons is responsible for shearing of rivet in a riveted joint?
   a) Diameter of the rivet is too small  b) Diameter of the rivet is too large
   c) Thickness of plates vary         d) Pitch of the holes is too small

4. Which type of key is used for coupling a pulley with a shaft?
   a) Square key                      b) Woodruff key
   c) Gib head key                    d) Flat saddle key

5. The brass used making the joint in brazing for soldering material is ____________.
   a) Flux                            b) Borax
   c) Spelter                         d) Soft soldering

6. Which material is used for joining CI pipe?
   a) Brass                          b) Tin
   c) Lead                           d) Corrosion
7. Electroplating is done on jobs to resist corrosion. Which pole of a D.C supply is connected to the work in electroplating process?
   a) Positive pole b) Positive terminal post
   c) Negative pole d) Negative terminal post

8. Name the part marked ‘x’ shown in figure.
   a) Stuffing box b) Bonnet
   c) Gland nut d) Metal disk holders

9. Which pipe is used for interior work?
   a) Steel pipe b) PVC pipe
   c) Wrought iron pipe d) Lead pipe

10. What joint is used for temporary pipe line?
    a) Expansion joint b) Flange joint
    c) Screwed joint d) Collar joint

11. The function of a washer is ____________.
    a) To fill the axial gap b) To provide cushioning effect
    c) To absorb shock and vibrations d) To provide bearing area

12. In a vee belt the angle between the side is ____________.
    a) 10 degree b) 20 degree
    c) 30 degree d) 40 degree

13. A jig is a device used for ____________.
    a) Holding the workpiece b) Guiding the tool
    c) Loosening the workpiece d) Holding the workpiece and guide the tool
14. Typical locating device for cylindrical job used in jigs and fixtures are __________.
   a) Drill jigs  
   c) Mandrels  
   b) V-block  
   d) Angle plate

15. To put off class ‘B’ fire the type of fire extinguisher used __________.
   a) Dry powder  
   c) Carbon dioxide  
   b) Foam type  
   d) Jet of water

16. Name the rivet head used for heavy fabrication work.
   a) Flat head  
   c) Snap head  
   b) Pan head  
   d) Mushroom

17. Belt slips reason is __________.
   a) Less tension  
   c) High starting torque  
   b) Pulsating load  
   d) Shock load

18. Which type of knot is used to joins two pieces of rope of equal diameters?
   a) Slip knot  
   c) Square knot  
   b) Bowline knot  
   d) Sheep shank knot

19. Which nonferrous metal tensile strength can be increased by hammering or rolling?
   a) Lead  
   c) Tin  
   b) Copper  
   d) Zinc

20. Which type of thread is used for power screws?
   a) Metric  
   c) Square  
   b) Knuckle  
   d) BSW

21. Soldering iron are made of copper because __________.
   a) It is heavy  
   c) It is thermal expansion is more  
   b) It is a bad conductor of heat  
   d) It is good conductor of heat
22. Name the type of jig in which a base plate is not available.
   a) Plate jig  
   b) Box jig 
   c) Trunnion jig  
   d) Latch jig

23. In case of electric fire, which one of the following should not use _________.
   a) Put water on it  
   b) Use sand or clay 
   c) Use C.T.C. extinguisher  
   d) Use dry chemical powder

24. The best way of avoiding accident is by _________.
   a) Doing work in ancient way  
   b) Doing work in one's own way 
   c) Observing safety rules related to job, machine and workplace 
   d) Using safety equipment

25. Oil fire extinguished by _________.
   a) Putting water on it  
   b) Foam extinguisher 
   c) Soda acid extinguisher  
   d) None of these

26. In the process of soldering, you have noticed solder not sticking to sufficiently heated copper soldering bit when rubbed over solder bar. What step do you take to overcome the problem?
   a) Pre-heat the solder  
   b) Clean the bit thoroughly 
   c) Change the soldering bit shape  
   d) Rub the bit over solder for longer period

27. Which flux is used for soldering?
   a) Zinc chloride  
   b) Ammonium Chloride 
   c) Hydro chloric acid  
   d) All of these

28. In a riveted joint the edges of plates are simply laid over each other and riveted. This joint is called _________.
   a) Lap joint  
   b) Butt joint 
   c) Edge joint  
   d) Corner joint

29. In a riveted joint the plates are placed end-to-end and jointed through cover plates. This joint is called _________.
   a) Lap joint  
   b) Butt joint 
   c) Edge joint  
   d) Corner joint
30. An accident is _____________.
   a) Unplanned event  b) Non-controlled event
   c) Undesirable event  d) All of these

31. Case hardening is a method of producing hard skin on the surface of _____________.
   a) High-carbon steel parts  b) Cast iron (heavy parts)
   c) Low-carbon steel parts  d) Alloy steel parts

32. “Cyaniding” and “Nitriding” are two methods of _____________.
   a) Hardening  b) Case hardening
   c) Tempering  d) Normalising

33. Medium solder contains _____________.
   a) 37% lead and 63% tin  b) 50% lead and 50% tin
   c) 70% lead and 50% tin  d) None of these

34. Melting temperature range of soft solder _____________.
   a) 150-350°C  b) 600-900°C
   c) 500-600°C  d) None of these

35. Best conductor of heat and electricity is _____________.
   a) Nickel  b) Copper
   c) Chromium  d) Aluminium

36. The standard taper of pin is _____________.
   a) 1:20  b) 1:30
   c) 1:40  d) 1:50

37. The included angle for the V belt is usually in degrees _____________.
   a) 10 to 20  b) 20 to 30
   c) 30 to 40  d) 60 to 80
38. The size of a gear is usually specified by __________.
a) Pressure angle  
   b) Circular pitch
   c) Diametrical pitch  
   d) PCD

39. For shaft in parallel and rotating in the same direction, the belt drive used is ________.
a) Open  
   b) Cross
   c) Diagonal  
   d) None of these

40. When close the pipe end is required, the fitting of ________ is.
a) Plug  
   b) Cap
   c) Socket  
   d) Tee

41. The purpose of lubrication is __________.
a) To reduce friction  
   b) To reduce wear
   c) Transfer heat produced  
   d) All of these

42. The rolling contact bearings are known as __________.
a) Thick lubricated bearings  
   b) Plastic bearings
   c) Thin lubricated bearings  
   d) Antifriction bearings

43. Radial distance of a gear tooth from the pitch circle to the top of the tooth is known as: -
a) Addendum  
   b) Dedendum
   c) Module  
   d) Pitch

44. V-block (vee locators) are used for clamping as well as locating when faces are inclined upto:-
a) 30°  
   b) 12°
   c) 9°  
   d) 3°
45. Gun metal is an alloy of copper:
   a) Tin and Zinc
   b) Lead and Zinc
   c) Zinc and Nickel
   d) Lead and Nickel

46. Brass in an alloy of__________.
   a) Copper and Tin
   b) Lead and Tin
   c) Copper and Zinc
   d) Copper and Silver

47. TQM is meant to satisfy __________.
   a) Shareholders
   b) Consumers
   c) People in the organization
   d) All of these

48. Which one of the following thread forms on bolts and nuts is meant for general fastening purposes?
   a) ‘V’ thread
   b) Square thread
   c) Knuckle threads
   d) Acme threads

49. A tab washer is used for__________.
   a) Self–locking
   b) Locking the nuts
   c) Avoiding vibration
   d) Fastening vibration work

50. In a pneumatic system, a sensor serves the purpose of__________.
   a) Transmission
   b) Control
   c) Feedback
   d) Storage

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