1. The purpose of normalizing steel is — 
   (a) Remove induced stresses & refine grain size 
   (b) Improve machineability 
   (c) Soften the steel 
   (d) Increase the toughness and reduce brittleness

2. The toughness in a steel is increased and brittleness is decrease by a treatment operation called as — 
   (a) Annealing 
   (b) Normalizing 
   (c) Tempering 
   (d) Case heading

3. Heat treatment of metals is necessary? 
   (a) To produce certain desire properties 
   (b) To make good appearance on the component 
   (c) To increase strength of metals 
   (d) To avoid corrosion on metal

4. Lower critical temperature of high carbon steel while hardening is 
   (a) 960°C 
   (b) 900°C 
   (c) 723°C 
   (d) 560°C

5. What is the main purpose of annealing? 
   (a) To improve machinability & soften the steel 
   (b) To improve magnetism 
   (c) To improve hardness 
   (d) To increase toughness

6. While normalizing the steel should be cooled 
   (a) In still air to room temperature 
   (b) In oil 
   (c) In forced air 
   (d) In water
7. The process of increasing carbon percentage on the surface of low carbon steel is known as-
   (a) Hardening
   (b) Nitriding
   (c) Carburizing
   (d) Tempering

8. Induction coil is made from __________ material.
   (a) Mild steel
   (b) Copper
   (c) Tin
   (d) Silver

9. Solder is an alloy of __________ & __________
   (a) Tin and lead
   (b) Copper and zinc
   (c) Copper and tin
   (d) Brass and zinc

10. Which metal is use for bit of hatched soldering iron?
    (a) Brass
    (b) Copper
    (c) Mild steel
    (d) Cast iron

11. Spelter is alloy of __________ & __________
    (a) Tin and lead
    (b) Brass and zinc
    (c) Copper and zinc
    (d) None of these

12. Which type of flux are used for brazing?
    (a) Sodium carbonate
    (b) HCl.
    (c) Borax
    (d) Resin

13. What is the name of filler metal in brazing?
    (a) Sweating
    (b) Spelter
    (c) Base metal
    (d) Flux

14. Which is main advantage of interchangeability?
    (a) Help for mass production
    (b) Less Rejection
    (c) Part changeable after damages
    (d) All of these
15. Spirit level is used for
   (a) Testing for machine
   (b) While machine is erected
   (c) For starting of machine
   (d) Foundation of machine

16. _______ is necessary for continues better production.
   (a) Routine maintenance
   (b) Break down maintenance
   (c) Preventive maintenance
   (d) None of these

17. _______ gauge is used to checking external threads of pipe.
   (a) Thread gauge
   (b) Thread ring gauge
   (c) Centre gauge
   (d) Thickness gauge

18. _______ is used for supplying water from main line.
   (a) Valves
   (b) Cock
   (c) Taps
   (d) Union

19. In pipe line fitting accessory used to pipe pieces short or long is called
   (a) Union
   (b) Reducer
   (c) Nipple’s
   (d) Plug

20. Generally fitting for big diameter pipe joint _________ is used.
   (a) Flange
   (b) Socket
   (c) Plug
   (d) Union

21. Which accessory is used for fitting branch line to main line?
   (a) Union
   (b) Elbow
   (c) Tee
   (d) Flange

22. In pipe fitting which accessory is used for four way pipe fitting?
   (a) Socket
   (b) Elbow
   (c) Tee
   (d) Cross

23. Which accessory is used in pipe fitting of different diameter pipe joint each other for increase the length?
   (a) Socket
   (b) Reducer
   (c) Union
   (d) Flange
24. Which one is used for joint connection in pipe line without any destruction?
   (a) Union
   (b) Plug
   (c) Socket
   (d) Cross

25. Which of the following is the included angle of pipe thread?
   (a) 29°
   (b) 27.5°
   (c) 55°
   (d) 60°

26. Which of the following is a form of standard pipe thread?
   (a) B.S.P.
   (b) B.S.F.
   (c) B.S.W.
   (d) B.A.

27. In triangle of fire fuel, heat and ________ both three important contribution substance.
   (a) Oxygen
   (b) Fire
   (c) Air
   (d) Water

28. Which one is use on A class fire?
   (a) Pistol type fire extinguisher
   (b) Dry powder fire extinguisher
   (c) Foam type fire extinguisher
   (d) Soda acid type fire extinguisher

29. The process of electroplating on metal surface is ________
   (a) Temporary
   (b) Semi-permanent
   (c) Permanent
   (d) Above all

30. ________ material is used as sheathing material for avoid rust of telephone and electrical
   underground wires.
   (a) Nickel
   (b) Copper
   (c) Lead
   (d) Tin

31. Which among is the lightest metal?
   (a) Lead
   (b) Tin
   (c) Aluminium
   (d) Copper

32. The main mechanical property of aluminium is ________
   (a) Soft
   (b) Brittle
   (c) Strong
   (d) Tough
33. Brass is an alloy of ___________ & ___________
   (a) Copper & Tin
   (c) Copper & Zinc
   (b) Lead & Tin
   (d) Copper & Silver

34. Bronze is an alloy of ___________ & ___________
   (a) Copper & Tin
   (c) Copper & Zinc
   (b) Lead & Tin
   (d) Copper & Silver

35. Aluminium is base of ___________ ore.
   (a) Iron ore
   (c) Zinc alloy
   (b) Copper pirate
   (d) Boxide

36. ___________ is the most important non-metal used for electrical equipment because it is electric
   resistance substance.
   (a) Plastic
   (c) Wood
   (b) Rubber
   (d) Cement

37. Wood ruff Key having shape of ___________.
   (a) Taper circular
   (c) Rectangular
   (b) Round
   (d) half moon shape

38. When quick and accurate fastening of two matching part ___________ is used.
   (a) Taper key
   (c) Pins
   (b) Cotter
   (d) Saddle key

39. For this coupling two flanges is use for two connecting shaft.
   (a) Flange coupling
   (c) Flexible coupling
   (b) Muff coupling
   (d) Old ham coupling

40. Cam is used for rotary motion is transfer to ___________ motion.
   (a) Flat motion
   (c) High Speed
   (b) Resiprocative
   (d) Low speed

41. Jockey pulley is ___________.
   (a) Increase connecting portion on pulley
   (c) It gives various speed of Shaft
   (b) Gives more power of Driver Pulley
   (d) Step cone pulley has different dia
42. Face of the Pulley is make slightly convex in width. It is called
   (a) Flank
   (c) Effective diameter
   (b) Crowning
   (d) Rim

43. The brass which is used in engineering work alloy 60% & 40%
   (a) Copper & zinc
   (c) Tin & zinc
   (b) Copper & tin
   (d) Tin & lead

44. ______ metal alloying with steel make hard and rust proof its melting point is 1615°C.
   (a) Chromium
   (c) Silver
   (b) Nickel
   (d) Copper

45. The metal which is use for coating sheet because it is anticorrosive metal is
   (a) Aluminium
   (c) Zinc
   (b) Tin
   (d) Lead

46. For secret machine independent motor is used called ______ drive.
   (a) Self drive
   (c) Open drive
   (b) Group drive
   (d) None of them

47. For gives varies speed ratio on machine ______ pulley is used.
   (a) Flat Pulley
   (c) Step Cone Pulley
   (b) V Groove Pulley
   (d) Jockey Pulley

48. In use 'V' belt drive avoid defect of ______
   (a) Slippage
   (c) Cutting
   (b) Crippling
   (d) Crowning

49. Pitch circle of gear & height of gear tooth is called ______
   (a) Addendum
   (c) Centre Distance
   (b) Dedendum
   (d) Face

50. The best example of semi-liquid lubricant is ______
   (a) Grease
   (c) Castor Oil
   (b) Grafid
   (d) Lord Oil

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