Choose the correct answer.

1. An accident is
   a. Unplanned event
   b. Non-controlled event
   c. Undesirable event
   d. All of these

2. 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. Not using safety equipment

3. An oily floor should be cleaned by
   a. Cotton waste
   b. Putting water
   c. Putting saw dust
   d. Spraying carbon dioxide

4. Fire is a combination of
   a. Fuel, light and oxygen
   b. Fuel, heat and oxygen
   c. Fuel, heat and carbon dioxide
   d. Fuel, light and nitrogen

5. Which one of the following is not a fundamental units
   a. Pressure
   b. Length
   c. Mass
   d. Time

6. Lathe lead screw is made of _____________
   a. H.C. Steel
   b. Cast iron
   c. Mild steel
   d. Nickel

7. Which of the following is Unit of length?
   a. Lunar Month
   b. Kelvin
   c. Candela
   d. Meter

8. The main scale is on which part of vernier height gauge
   a. Movable
   b. Base
   c. Vernier scale
   d. Beam

Contd…2/
9. Least count of vernier caliper in metric system
   a. 0.001 mm       c. 0.02 mm
   b. 0.01 mm        d. 0.05 mm

10. Which among the below is not a type of welding
    a. Fusion            c. Pressure
    b. Non fusion        d. Non pressure

11. What is the name of the tool used to remove the drill chuck from the spindle of the drill
    a. Chuck key          c. Drift Pin
    b. Chisel             d. Saw

12. In a drill the H.S.S. means
    a. Tool type         c. Diameter
    b. Material          d. I.S. No

13. A non-ferrous metal which has property of brittleness that is
    a. Zinc              c. Tin
    b. Lead              d. Copper

14. Resistance developed by surface of any material is known as:
    a. Strength          c. Stiffness
    b. Hardness          d. Creep

15. The body of aeroplane is made of aluminum because to its
    a. Colour            c. Point
    b. Melting point     d. Weight

16. Least count of vernier micrometer is to be read
    a. 0.02 mm           c. 0.1 mm
    b. 0.01 mm           d. 0.001 mm

17. Taps cut only thread of
    a. External          c. Both external and internal
    b. Only one end      d. Internal

18. Resistance of material against any external force is known as:
    a. Stiffness         c. Strength
    b. Malleability      d. Hardness

19. Permanent deformation of material with respect to time due to constant load and variable
    temperature is known as:
    a. Elasticity        c. Hardness
    b. Isotropy          d. Creep

20. In Normalizing, cooling is done in which of the following medium?
    a. Air              c. Oil
    b. Water            d. Furnace
21. Mild steel can be converted into high carbon steel by using which of the following process?
   a. Annealing
   b. Normalizing
   c. Case hardening
   d. None of these

22. Annealing of steel is done to impart which one of the following property on steel?
   a. Hardness
   b. Toughness
   c. Ductility
   d. None of the mentioned

23. The commonly used flux in brazing is
   a. Borax
   b. Rosin
   c. Lead sulphide
   d. Zinc chloride

24. The composition of soft solder is
   a. lead-37%, tin-63%
   b. lead-50%, tin-50%
   c. lead-63%, tin-37%
   d. lead-70%, tin-30%

25. Which of the following isn’t a main part of rivet?
   a. Head
   b. Shank
   c. Point
   d. Thread

26. A rivet is specified as a 20mm rivet. What does it mean?
   a. Shank dia 20 mm
   b. Head dia 20 mm
   c. Both (a) & (b)
   d. None of these

27. The tooth thickness of rack is measured by –
   a. Universal vernier caliper
   b. Gear tooth vernier caliper
   c. Flange micrometer
   d. Gear tester

28. In which of the following process, heat is created by blacksmith fire
   a. Forge welding
   b. Spot welding
   c. Projection welding
   d. Seam welding

29. Which of the following joint have high corrosion resistance?
   a. Welding joint
   b. Riveted joint
   c. Bolted joint
   d. None of the above

30. Which of the following ray is not produced during welding?
   a. Gamma rays
   b. Visible light rays
   c. Infrared ray
   d. Ultra violet rays

31. Which of the following types, is not fillet weld?
   a. Butt joint
   b. lap joint
   c. T-joint
   d. Corner joint

32. The metals having good weldability, in descending order are
   a. Cast steel, iron, carbon steel, cast iron
   b. Carbon steel, iron, cast steel, cast iron
   c. Iron, carbon steel, cast steel, cast iron
   d. Cast iron, iron, carbon steel, cast steel
33. Which of the following is an example of plastic welding?
   a. Gas welding
   b. Arc welding
   c. Forge welding
   d. Thermit welding

34. V Block is used to hold round bars. It has a Vee groove which is usually
   a. 30°
   b. 60°
   c. 90°
   d. 120°

35. You have to file an aluminum block to a smooth finish, which one of the following cut of
    file is most suitable?
    a. Double cut
    b. Curved cut
    c. Rasp cut
    d. Single cut

36. The degree of closeness of the measured value of a certain quantity with its true value is
    known as
    a. Accuracy
    b. Precision
    c. Standard
    d. Sensitivity

37. The pattern on the work surface caused by the movement of the cutting tool is called?
    a. Waviness
    b. Roughness
    c. Surface texture
    d. Lay

38. The following is an internationally recognized and accepted unit system
    a. MKS
    b. FPS
    c. SI
    d. All of these

39. The following is a line standard of measurement
    a. Measuring tape
    b. Slip gauge
    c. Micrometer
    d. End bars

40. 1 Angstrom (Å) = _
    a. 10^-6m
    b. 10^-8m
    c. 10^-10m
    d. 10^-12m

41. _____ is equal to the differences of the two limits of size of the part
    a. Tolerance
    b. Low limit
    c. High limit
    d. Design size

42. The amount by which the actual size of a shaft is less than the actual size of mating hole
    in an assembly
    a. Clearance
    b. Interference
    c. Allowance
    d. None of these

43. A negative allowance will always result in a _____ fit.
    a. Clearance
    b. Interference
    c. Transition
    d. Any of these
44. The following is used to check the diameters of holes
   a. Plug gauge
   b. Ring gauge
   c. Slip gauge
   d. Standard screw pitch gauge

45. The following is not used to measure angles
   a. Bevel protectors
   b. Calibrated levels
   c. Clinometers
   d. Optical flats

46. Which vice is used for sharpening the saw?
   a. Saw vice.
   b. Carpenter vice
   c. Bar clamp.
   d. C-clamp

47. Which saw is suitable for curve cutting?
   a. Cross cut saw
   b. Tenon saw
   c. Rip saw
   d. Compass saw

48. The maximum tilting angle of the band saw machine is
   a. 35\(^\circ\)
   b. 40\(^\circ\)
   c. 45\(^\circ\)
   d. 50\(^\circ\)

49. -------- drills are the most common cutting tools used with drilling machines.
   a. Compound
   b. Twist
   c. Auger
   d. All of these

50. -------- cuts the material in the drill.
    a. Bit
    b. Chisel
    c. Saw
    d. Cutting tool

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