

**PAPER – I  
FITTER  
(THEORY & EMPLOYABILITY SKILLS)  
SEMESTER – I**

**TIME: 3 HRS.****MARKS: 200**

**Note: This paper contains two parts – Part A & Part B.  
Attempt all the questions.  
All questions carry equal marks.**

**PART – A (THEORY)****(MARKS: 150)****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. Lest 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 c. Forge welding  
b. Arc welding d. Thermit welding
34. V Block is used to hold round bars. It has a Vee groove which is usually  
a.  $30^\circ$  c.  $90^\circ$   
b.  $60^\circ$  d.  $120^\circ$
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 c. Rasp cut  
b. Curved 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 c. Standard  
b. Precision d. Sensitivity
37. The pattern on the work surface caused by the movement of the cutting tool is called?  
a. Waviness c. Surface texture  
b. Roughness d. Lay
38. The following is an internationally recognized and accepted unit system  
a. MKS c. SI  
b. FPS d. All of these
39. The following is a line standard of measurement  
a. Measuring tape c. Micrometer  
b. Slip gauge d. End bars
40. 1 Angstrom ( $\text{\AA}$ ) = \_  
a.  $10^{-6}\text{m}$  c.  $10^{-10}\text{m}$   
b.  $10^{-8}\text{m}$  d.  $10^{-12}\text{m}$
41. \_\_\_\_ is equal to the differences of the two limits of size of the part  
a. Tolerance c. High limit  
b. Low 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 c. Allowance  
b. Interference d. None of these
43. A negative allowance will always result in a \_\_\_\_ fit.  
a. Clearance c. Transition  
b. Interference 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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