

SEM - I
SUB : TRADE THEORY
TRADE : FITTER

TIME: 3 Hrs.

Marks: 200

Note: This paper contains two parts- Part A & Part B.

Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong answer.

Part-A (Theory)

(MARKS: 150)

Choose the correct answer:

1. A divider is used for _____.
(a) Scribing circles (b) Scribing arcs
(c) Scribing and stepping of distances (d) All of these
2. Another name of hand file is _____.
(a) Square file (b) Parallel file
(c) Flat file (d) Safe edge file
3. The best way to avoid accident is by _____.
(a) Doing work in ancient way
(b) Doing work in own's way
(c) Observing safety rules related to job & machined work place
(d) Using safety equipment
4. The Jaw in this type of wrench open parallel with the help of screw. For different sizes of nuts. These are _____.
(a) Pipe Wrenches (b) Monkey Wrenches
(c) Socket Wrenches (d) Allen Wrenches
5. The peen of straights peen- hammer is:-
(a) Angular to the handle (b) Straight to the handle
(c) Cross to the handle (d) Best toward the handle
6. Ratchet stop in the micrometer helps to:-
(a) Control the pressure (b) Lock the spindle
(c) adjust zero error (d) Hold the work piece.
7. To convert the inner motion of Plunger of a dial indicator to rotary motion of pointer. Which one of the following mechanism is used for?
(a) Quick return mechanism (b) Rock pinion mechanism
(c) Screw thread mechanism (d) Hydraulic mechanism
8. Difference between 1 MSD and 1VSD in vernier caliper is:
(a) 0.02 mm (b) 0.001 mm
(c) 0.002 mm (d) 0.2 mm

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9. Which one contains higher percentage of carbon?
(a) High carbon steel (b) Low carbon steel
(c) Tool steel (d) Cast iron
10. Least count of Micrometer is _____.
(a) 0.001 mm (b) 0.1 mm
(c) 0.002 mm (d) None of these
11. Size of Taping drill for M 10 x 1.5 Thread is _____.
(a) 8.17 mm (b) 8.37 mm
(c) 9.17 mm (d) 7.87 mm
12. Which one of the following metal is corrosion resistant?
(a) Aluminum (b) Tin
(c) Copper (d) Mild Steel
13. Temperature of soft soldering should be _____.
(a) < 450 °C (b) > 450 °C
(c) 900 °C to 1000 °C (d) 1200 °C
14. Which one of the following properties offers resistance of abrasions?
(a) Hardness (b) Toughness
(c) Ductility (d) Malleability
15. Spot facing is done to _____.
(a) Deburr the mouth of the drilled hole
(b) Make surface flat so that bolt head can take proper seat
(c) Give fine finish to the drilled hole
(d) Enlarge the existing hole
16. Second cut in a file is the type of _____.
(a) Section (b) Grade
(c) Cut (d) Design
17. Sheets of Copper and Brass are _____.
(a) Hard and Ductile (b) Hard and Brittle
(c) Hard and Tough (d) Malleable and Ductile
18. Forging is carried out in the _____ State of Metal
(a) Elastic (b) Solid
(c) Plastic (d) Liquid
19. Fullers are used for _____.
(a) Necking & Grooving (b) Forming the heads of rivets bolts etc.
(c) Making shoulders with right angles (d) Drawing down
20. Angle of Point of Scriber is _____.
(a) 8 to 10° (b) 12 to 15°
(c) 60° (d) 30°

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21. Cast Iron cannot be forged because it has the property of _____.
(a) Softness (b) Stiffness
(c) Toughness (d) Brittleness
22. The main purpose of annealing is _____.
(a) To improve machinability (b) To improve magnetism
(c) To increase hardness (d) To increase toughness
23. The external surface of the part made of mild steel can be hardened by _____.
(a) Tempering (b) Normalising
(c) Case hardening (d) Hardening
24. Bent snip is used for _____.
(a) Removing the burr (b) Making holes in the sheet
(c) Bending two sheet (d) Cutting the sheet along curved lines
25. Which type of stake is used for shaping and seaming funnels and tepeved articles?
(a) Hatchet Stake (b) Half moon stake
(c) Funnel stake (d) Eveasing stake
26. Number of Notches in ring spanner may be _____.
(a) 10 (b) 14
(c) 8 (d) 12
27. Most common solder is _____.
(a) Alloy of tin and lead (b) Alloy of tin & zinc
(c) Alloy of zinc & lead (d) Alloy of Cu & zinc
28. Hammer made from wood is known as _____.
(a) Ball Peen Hammer (b) Mallet
(c) Sledge Hammer (d) Straight Peen Hammer
29. Number of Teeths in Rough File is _____.
(a) 6 to 18 per CM (b) 5 to 10 per CM
(c) 4.5 to 10 pr CM (d) 28 to 35 per CM
30. The main function of Flux is _____.
(a) To avoid oxidation (b) To join metal
(c) To increase temperature (d) None of these
31. If 'D' is the diameter of rivet and 't' is the thickness of plate in mm in a rivetes joint the rule is _____.
(a) $d = 2\sqrt{t}$ (b) $d = 4\sqrt{t}$
(c) $d = 6\sqrt{t}$ (d) $d = 8\sqrt{t}$
32. Chisel used to cut KEYWAY _____.
(a) Flat Chisel (b) Cap Chisel
(c) Round Nose Chisel (d) Diamond Point Chisel

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33. Try Square is meant to _____.
(a) Check the round surface (b) check the groove surface
(c) Check the flat surface (d) Check the irregular surface
34. Marking media used for casting & forging surfaces is _____.
(a) Chalk powder (b) Prussian blue
(c) Copper sulphate (d) Red lead
35. Hemming is done for _____.
(a) Strengthening the edge of sheet metal (b) To make joint
(c) For wiring purpose (d) None of these
36. Notch used to bend the job at 90°:
(a) V notch (b) Square Notch
(c) Slant Notch (d) Wired Notch
37. Forging Temperature of low carbon steel is _____.
(a) 800 °C to 1300 °C (b) 900 °C to 1150 °C
(c) 950 °C to 1100 °C (d) None of these
38. Characteristics of forge fire is _____.
(a) It should be clean (b) It should be dark
(c) It should be dense (d) All of these
39. Galvanizing of metal is a process of _____.
(a) Coating the metal with chromium (b) Coating the metal with zinc
(c) Coating the metal with tin (d) Coating the metal with copper
40. A micrometer has 0.03 mm positive error. If micrometer reads 20.43 mm, then actual reading is _____.
(a) 20.49 mm (b) 20.40 mm
(c) 20.47 mm (d) 20.46 mm
41. Basic Unit of Length in SI System is _____.
(a) Centimeter (b) Metre
(c) Millimeter (d) Micrometer
42. _____ is a direct Measurement tool.
(a) Standard Steel Rule (b) Outside caliper
(c) Try Square (d) Straight Edge
43. Least Count of Steel Rule is _____.
(a) 0.1 mm (b) 0.05 mm
(c) 0.01 mm (d) 0.5 mm
44. BIS is known as _____.
(a) Bureau of International Standard (b) Bureau of Industrial Standard
(c) Bureau of Indian Standard (d) None of these

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45. Calipers are made up of _____.
(a) Tool Steel (b) Carbon
(c) Mild Steel (d) Brass
46. Which one the following file is most suitable for smooth finish to aluminum block?
(a) Double cut (b) Curved cut
(c) Rasp cut (d) Single cut
47. Point angle of center punch is _____.
(a) 30° (b) 60°
(c) 90° (d) 120°
48. V block are available in _____.
(a) A and B Grade (b) A, B and C Grade
(c) A Grade (d) B Grade
49. Vernier depth gauge is used for measuring _____.
(a) External dimensions (b) Internal dimensions
(c) Step depth of blind holes (d) Pitch diameter
50. The movable Jaw of bench vice is not moving even though the spindle is turned. It is due to the reasons that _____.
(a) Fixed and moveable jaw are overtight (b) Spindle pin is broken
(c) Spring is not functioning (d) Thread on spindle are slightly worn out
