

PAPER-I
FITTER
(THEORY)
SEMESTER-II

TIME: 3 Hrs.

MARKS: 150

Note:- Attempt all the questions.

All questions carry equal marks.

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

Choose the correct answer:

1. Twist drill are made of
 - a) High speed steel
 - b) Low carbon steel
 - c) Stainless steel
 - d) Wood
2. Which type of apron is used while during welding
 - a) Cotton
 - b) Plastic
 - c) Silk
 - d) Leather and worn
3. Which one of the following is not reason for accident
 - a) unawareness of danger
 - b) Negligence
 - c) Improper use of tools
 - d) Using gloves
4. In Lap Joint, plates are kept
 - a) At straight angle
 - b) In butt positions
 - c) Overlap position
 - d) At a angle
5. Killed steel is opposite of steel.
 - a) Carbon
 - b) Alloy
 - c) Rimmed
 - d) None of these
6. Welding flux is used for
 - a) Radiation
 - b) Oxidation
 - c) Reduction
 - d) To stop oxidation
7. The least count of a Vernier bevel protectors
 - a) 1"
 - b) 5"
 - c) 1°
 - d) 5°
8. What should be done immediately if a cylinder leaks due to defective valves or safety plug
 - a) Try to repair it yourself
 - b) Ask other to repair it
 - c) Inform other to the suppliers
 - d) Move it to a safe area

9. Pressure welding process, generally used in sheet metal fabrication is called
 - a) Arc welding
 - b) Gas welding
 - c) Spot welding
 - d) Thermit welding
10. The clearance angle of a drill is between
 - a) 3° to 5°
 - b) 8° to 12°
 - c) 12° to 20°
 - d) 15° to 20°
11. The tap used to cut threads in a blind hole is
 - a) Taper Tap
 - b) Second tap
 - c) Bottoming Tap
 - d) Any one of these
12. Electrode is consumed in the following welding process ..
 - a) Gas
 - b) Resistance
 - c) Arc
 - d) Thermit
13. The Material used for coating of electrode is called
 - a) Protective layer
 - b) Blinder
 - c) Flux
 - d) Slag
14. A Drift is used for
 - a) Drawing drill location
 - b) Fixing chuck on the machine spindle
 - c) Removing a broken drill from the work
 - d) Removing the drill from the machine spindle
15. The charge is fed into the blast furnace through the
 - a) Throat
 - b) Stack
 - c) Bosh
 - d) Tuyers
16. Adjustable screw plate die is used for
 - a) Chasing or reconditioning
 - b) Easy to assemble inside the color
 - c) Increasing or decreasing depth of cut
 - d) To supply the cutting oil while threading
17. Is used for galvanizing iron sheets so that they do not rust.
 - a) Lead
 - b) Tin
 - c) Zinc
 - d) Silver
18. The process of beveling the end of a hole is called
 - a) Counter boring
 - b) Counter sinking
 - c) Spot facing
 - d) Reaming

19. Straight shank drills are held in: -
 - a) Sleeve
 - b) Socket
 - c) Arbor
 - d) Drill chuck
20. Property of wrought iron is decide by-
 - a) Carbon and magnesium
 - b) Carbon and manganese
 - c) Aluminum and carbon
 - d) Magnesium and manganese
21. The drilled hole is more than drill size due to
 - a) Incorrect clearance
 - b) Unequal lip lengths
 - c) Inappropriate cutting angle
 - d) Large Helix angle
22. Jenny caliper is used to
 - a) For finding the external of round bar
 - b) For finding the internal round bar
 - c) For finding the center of round bar
 - d) For finding the angles
23. While drilling the drill gets overheated this is due to
 - a) More lip clearance angle
 - b) Less cutting angle
 - c) Material being drilled is ductile
 - d) Excessive cutting pressure
24. Angle of BSW 'V' form thread is
 - a) 60°
 - b) 55°
 - c) 47.5°
 - d) 45°
25. To find/ check the clearance between two mating parts, Gauge is used
 - a) Radius
 - b) Fillet
 - c) Feeler
 - d) Plug
26. Vernier height gauge works on the principle similar to
 - a) Vernier micrometer
 - b) Vernier caliper
 - c) Vernier bevel protector
 - d) None of the above
27. Which of the following thread is used for transmitting motion?
 - a) Round thread
 - b) Trapezoidal thread
 - c) ISO Metric thread
 - d) BSW thread
28. The coating of electrodes for welding mild and low alloy steels is used to provide gaseous shield with reducing agent.
 - a) Metal Carbonates
 - b) Titanium Oxide
 - c) Ferromanganese and Ferro silicon
 - d) Cellulose
29. Shaping of grinding wheel to make it run concentric with the axis is called: -
 - a) Dressing
 - b) Truing
 - c) Balancing
 - d) Glazing

30. Bronze is an alloy of copper and
 a) Zinc
 c) Lead
 b) Tin
 d) Silver
31. The difference between the maximum limit of sizes is equal to
 a) Upper deviation
 c) Tolerance
 b) Lower deviation
 d) Actual size
32. Name the Instrument to measure the diameter of round rod.
 a) Depth Micrometer
 c) Outside micrometer
 b) Inside micrometer
 d) Tube micrometer
33. Which one of the following elements cannot be checked with the screw pitch gauge
 a) Pitch
 c) Profile
 b. Lead
 d. Depth
34. Operation for making a seat for bolt head, washer or nut is called
 a) Spot facing
 c) Counter sinking
 b. Counter boring
 d. Grooving
35. The Number of divisions on Vernier scale of a Vernier micrometer (metric) are: -
 a) 5
 c) 50
 b) 10
 d) 100
36. The surface of a grinding wheel develops a smooth and shining appearance is called –
 a) Glazing
 c) Dressing
 b) Loading
 d) Truing
37. Files are made of
 a) Forged wrought iron
 c) High carbon steel
 b) Mild Steel
 d) Aluminum
38. What is the functional part “pilot” provided in reamers-
 a) Finish Concentric Hole
 c) Hold in tap wrench
 b) Removing chips
 d) Hold in machine spindle.
39. Pudding furnace is used to produce
 a) Pig Iron
 c) Wrought Iron
 b) Cast Iron
 d) Steel
40. In Oxy acetylene welding, color of oxygen cylinder is
 a) Red
 c) Black
 b) Maroon
 d) Brown

41. Which flame is suitable for cutting operations-
- a) Oxidizing flame
 - b) Carburizing flame
 - c) Neutral Flame
 - d) None of these
42. Which flame is suitable for welding of non ferrous metals (brasses and bronzes)
- a) Oxidizing flame
 - b) Carburizing flame
 - c) Neutral Flame
 - d) None of these
43. A left hand screw advances in: -
- a) Clockwise
 - b) Anticlockwise
 - c) Any direction
 - d) None of these
44. Acme thread is a modified form of:-
- a) Vee thread
 - b) Square thread
 - c) Saw tooth thread
 - d) Worm thread
45. Mechanical seals are used to: -
- a) Prevent vibration
 - b) Prevent leakage
 - c) Reduce Function
 - d) Balance the equipment
46. Interchangeability of parts is best suited for: -
- a) Batch production
 - b) Mass production
 - c) Job production
 - d) None of the above
47. Hook Scrapers are used for scraping
- a) Curved surface
 - b) Hollow Surface
 - c) Centre portion of a flat surface
 - d) Bend surface
48. In Marking of grinding wheels, compulsory symbols are used?
- a) 7
 - b) 8
 - c) 6
 - d) 5

49. While over tighten the bench vice which part will get damage?
- a) Handle
 - b) Spindle
 - c) Square nut
 - d) Fixed Jaw
50. Zero line represents: -
- a) Upper deviation
 - b) Lower deviations
 - c) Zero deviations
 - d) None of the above
