

SEM - IV
SUB : TRADE THEORY
TRADE : FITTER

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 answers:

1. Fastening of one part of rope to other part of rope is known as -
 (a) Loop (b) Bight (c) Knot (d) Round turn

2. Which one of the following is used for making branch right angle to the main line in pipe fitting -
 (a) Union (b) Elbow (c) Tee (d) Flange

3. Clutch used to transmit less power is _____
 (a) Plate Clutch (b) Cone Clutch (c) Dog Clutch (d) Centrifugal Clutch

4. Gear drive used to change rotary motion into linear motion is _____
 (a) Spur Gear Drive (b) Bevel Gear Drive
 (c) Worm and Worm gear drive (d) Rack and Pinion Gear drive

5. Which among the following methods is generally used to cut threads on G.I pipes -
 (a) By centre lathe (b) By thread rollers (c) By tap sets (d) By die & stock

6. Depth of tooth space below the pitch circle in a gear is known as _____
 (a) Dedendum (b) Addendum (c) Crest (d) Root

7. Belt drive used with jockey pulley is _____
 (a) Open belt drive (b) Cross belt drive (c) Right angle drive (d) Quarter twist drive

8. Face of rim of pulley is made convex. It is called _____.
(a) Crackness (b) Effective Diameter (c) Flank (d) Crowning
9. Which galvanizing is providing a protective coating on mild steel?
(a) Zinc (b) Lead (c) Tin (d) Aluminium
10. Which metal is suitable for anodizing?
(a) Copper (b) Nickel (c) Aluminium (d) Iron
11. The general ratio of mixture of soluble with water is -
(a) 1:5 (b) 1:10 (c) 1:15 (d) 1:20
12. Solid lubricant is _____.
(a) Caster Oil (b) Lord Oil (c) Graphite (d) Grease
13. Cutting compound used during machining operation is _____.
(a) Water (b) Soluble Oil (c) Tarpin Oil (d) Grease
14. Lubricator used for lubrication on the sliding surface of machine is _____.
(a) Oil can (b) Weak feed Lubricator
(c) Ring Lubricator (d) Hand Pump
15. Splash lubrication is done by _____.
(a) Oil can (b) Grease Gun (c) Pump Lubricator (d) Ring Lubricator
16. Which friction occurred if journal bearing is not lubricated?
(a) Dry Friction (b) Rolling Friction (c) Sliding friction (d) Fluid Friction
17. The following is machined dry -
(a) Aluminum (b) Cast iron (c) Titanium (d) All of these

18. Preventive maintenance is carried out _____.
(a) Before failure of machine (b) After failure of machine
(c) Both (a) & (b) (d) None of these
19. Jigs and Fixtures are _____.
(a) Machining tools (b) Precision tools (c) both (a) & (b) (d) none of these
20. Composition of HSS cutting tool is in ratio of 18:4:1. In this 18 indicates _____.
(a) Chromium (b) Tungsten (c) Cobalt (d) Vanadium
21. Couplings used for joining of shafts, when shafts are _____.
(a) Joint permanently
(b) Removed frequently
(c) Joined and misalignment occurs
(d) Open frequently to fulfill the misalignment
22. Monel Metal has _____.
(a) 60% Copper 38% Nickel (b) 60% Nickel 38% Copper
(c) 6% Nickel 4% Copper (d) 6% Copper 4% Nickel
23. Activity log is _____.
(a) Written record how you spend time (b) Measure of procreativity
(c) To check the movement (d) None of these
24. The process in which surface is made smooth and uniform is known as _____.
(a) Buffing (b) Polishing (c) Metal Spinning (d) None of these
25. Carburizing is done on _____.
(a) High carbon steel (b) Medium carbon steel
(c) Low carbon steel (d) Tight speed steel
26. Which hoisting mobile equipment is used for self loading and shifting it to different places in a factory?
(a) Jib crane (b) Fork lift (c) Chain hoist (d) Gear hoist

27. Bushing in jig is used _____.
- (a) To locate and guide the tool (b) To locate the tool
(c) To guide the tool (d) None of these
28. Block spirit level is used to check _____.
- (a) Horizontal level (b) Vertical level
(c) Both (a) & (b) (d) Only angular measurement
29. Dry chemical extinguisher is used for _____.
- (a) Carbonaceous fire (b) Electrical Fire (c) Both (a) & (b) (d) None of these
30. The pattern on the work surface caused by the movement of the cutting tool is called _____.
- (a) Roughness (b) Surface texture (c) Waviness (d) Lay
31. Why flux is used in brazing?
- (a) To prevent steel from oxidizing during brazing process
(b) To speed up brazing
(c) To clean the metal by dissolving any oxide already present
(d) To make the final joint clean
32. Process chart shows _____.
- (a) Operation to be used (b) Sequence of operations
(c) Worker's name (d) Inspection method
33. Fixture is used for _____.
- (a) To hold the job (b) To hold and locate the job
(c) To locate the job (d) None of these
34. Which jig used for location in bore?
- (a) Solid Jig (b) Box Jig (c) Plate Jig (d) Post Jig
35. Drill jig bushing is made up of _____.
- (a) Cast Iron (b) Cast Steel
(c) Tool Steel (d) Mild Steel
36. To locate the renewable bushing in jig, _____ bush is used.
- (a) Liner (b) Press Fit (c) Knurled (d) Special

37. Which part of jig provides correct location to drill?
 (a) Liner Bush (b) Guide Bush (c) Jig plate (d) Setting Block
38. Which jig is used for drilling in thin sheets?
 (a) Solid Jig (b) Post Jig (c) Sand witch Jig (d) Table Jig
39. Which washer used in structural assembly?
 (a) Spring Washer (b) Plain Washer (c) Tapered Washer (d) Tap Washer
40. Which flux is used for Brazing?
 (a) Borax (b) Zinc Chloride (c) Resin (d) Phosphoric Acid
41. The size of hydraulic cylinder is specified by -
 (a) Piston diameter & stroke (b) Barrel of piston & piston
 (c) Volume of the fluid pushed & piston rod (d) None of these
42. Brazing is done at the temperature of _____.
 (a) More than 450 °C (b) Less than 450 °C (c) At 1000 °C (d) At 1500 °C
43. Soft soldering is done at the temperature of _____.
 (a) More than 450 °C (b) Less than 450 °C (c) At 1000 °C (d) At 1500 °C
44. Filler material used for brazing is an alloy of _____.
 (a) Copper and Lead (b) Copper and Tin (c) Copper and Zinc (d) Zinc and Lead
45. The power source in pneumatic system is _____.
 (a) Air receiver (b) Compressor (c) Valve (d) Muffler
46. Gum Metal is an alloy of _____.
 (a) Copper Zinc and Nickel (b) Copper Tin and Zinc
 (c) Copper Lead and Zinc (d) Copper Lead and Nickel
47. Bearing bushes are made up of _____.
 (a) Brass (b) White Metal (c) Gun Metal (d) Copper

48. The process of increase in percentage of carbon on the surface of low carbon steel is known as _____.
(a) Carburizing (b) Hardening (c) Tempering (d) Nitriding
49. 95% Metal available in Duralumin and Hindelium is _____.
(a) Copper (b) Zinc (c) Lead (d) Aluminium
50. Chain slings are used for _____.
(a) Light loads (b) Heavy loads (c) Medium loads (d) None of these
