

PAPER – I
FITTER
(THEORY)
SEMESTER – IV

MARKS: 150

Note: Attempt all questions.

All questions carry equal marks.

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

Choose the correct answer.

- The storage space of a fluid is called _____.
a) Strainer
b) Reservoir
c) Plug
d) Pump
- Viscosity is an internal property of a fluid. it is a measure of its resistance to :-
a) Current
b) Light
c) Sound
d) Flow
- Which one of the following reason is responsible for shearing of rivet in a riveted joint?
a) Diameter of the rivet is too small
b) Diameter of the rivet is too large
c) Thickness of plates vary
d) Pitch of the holes is too small
- Which type of key is used for coupling a pulley with a shaft?
a) Square key
b) Woodruff key
c) Gib head key
d) Flat saddle key
- The brass used making the joint in brazing for soldering material is _____.
a) Flux
b) Borax
c) Spelter
d) Soft soldering
- Which material is used for joining CI pipe?
a) Brass
b) Tin
c) Lead
d) Corrosion

7. Electroplating is done on jobs to resist corrosion. Which pole of a D.C supply is connected to the work in electroplating process?

a) Positive pole	b) Positive terminal post
c) Negative pole	d) Negative terminal post

8. Name the part marked 'x' shown in figure.

a) Stuffing box	b) Bonnet
c) Gland nut	d) Metal disk holders

9. Which pipe is used for interior work?

a) Steel pipe	b) PVC pipe
c) Wrought iron pipe	d) Lead pipe

10. What joint is used for temporary pipe line?

a) Expansion joint	b) Flange joint
c) Screwed joint	d) Collar joint

11. The function of a washer is _____.

a) To fill the axial gap	b) To provide cushioning effect
c) To absorb shock and vibrations	d) To provide bearing area

12. In a vee belt the angle between the side is _____.

a) 10 degree	b) 20 degree
c) 30 degree	d) 40 degree

13. A jig is a device used for _____.

a) Holding the workpiece	b) Guiding the tool
c) Loosening the workpiece	d) Holding the workpiece and guide the tool

14. Typical locating device for cylindrical job used in jigs and fixtures are _____.
a) Drill jigs
b) V-block
c) Mandrels
d) Angle plate
15. To put off class 'B' fire the type of fire extinguisher used _____.
a) Dry powder
b) Foam type
c) Carbondioxide
d) Jet of water
16. Name the rivet head used for heavy fabrication work.
a) Flat head
b) Pan head
c) Snap head
d) Mushroom
17. Belt slips reason is _____.
a) Less tension
b) Pulsating load
c) High starting torque
d) Shock load
18. Which type of knot is used to joins two pieces of rope of equal diameters?
a) Slip knot
b) Bowline knot
c) Square knot
d) Sheep shank knot
19. Which nonferrous metal tensile strength can be increased by hammering or rolling?
a) Lead
b) Copper
c) Tin
d) Zinc
20. Which type of thread is used for power screws?
a) Metric
b) Knuckle
c) Square
d) BSW
21. Soldering iron are made of copper because _____.
a) It is heavy
b) It is a bad conductor of heat
c) It is thermal expansion is more
d) It is good conductor of heat

22. Name the type of jig in which a base plate is not available.
 - a) Plate jig
 - b) Box jig
 - c) Trunnion jig
 - d) Latch jig
23. In case of electric fire, which one of the following should not use _____.
 - a) Put water on it
 - b) Use sand or clay
 - c) Use C.T.C. extinguisher
 - d) Use dry chemical powder
24. 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) Using safety equipment
25. Oil fire extinguished by _____.
 - a) Putting water on it
 - b) Foam extinguisher
 - c) Soda acid extinguisher
 - d) None of these
26. In the process of soldering, you have noticed solder not sticking to sufficiently heated copper soldering bit when rubbed over solder bar. What step do you take to overcome the problem?
 - a) Pre- heat the solder
 - b) Clean the bit thoroughly
 - c) Change the soldering bit shape
 - d) Rub the bit over solder for longer period
27. Which flux is used for soldering?
 - a) Zinc chloride
 - b) Ammonium Chloride
 - c) Hydro chloric acid
 - d) All of these
28. In a riveted joint the edges of plates are simply laid over each other and riveted. This joint is called _____.
 - a) Lap joint
 - b) Butt joint
 - c) Edge joint
 - d) Corner joint
29. In a riveted joint the plates are placed end-to-end and jointed through cover plates. This joint is called _____.
 - a) Lap joint
 - b) Butt joint
 - c) Edge joint
 - d) Corner joint

30. An accident is _____.
 a) Unplanned event
 b) Non-controlled event
 c) Undesirable event
 d) All of these
31. Case hardening is a method of producing hard skin on the surface of _____.
 a) High-carbon steel parts
 b) Cast iron (heavy parts)
 c) Low-carbon steel parts
 d) Alloy steel parts
32. "Cyaniding" and "Nitriding" are two methods of _____.
 a) Hardening
 b) Case hardening
 c) Tempering
 d) Normalising
33. Medium solder contains _____.
 a) 37% lead and 63% tin
 b) 50% lead and 50% tin
 c) 70% lead and 50% tin
 d) None of these
34. Melting temperature range of soft solder _____.
 a) 150-350°C
 b) 600-900°C
 c) 500-600°C
 d) None of these
35. Best conductor of heat and electricity is _____.
 a) Nickel
 b) Copper
 c) Chromium
 d) Aluminium
36. The standard taper of pin is _____.
 a) 1:20
 b) 1:30
 c) 1:40
 d) 1:50
37. The included angle for the V belt is usually in degrees _____.
 a) 10 to 20
 b) 20 to 30
 c) 30 to 40
 d) 60 to 80

45. Gun metal is an alloy of copper:
- | | |
|--------------------|--------------------|
| a) Tin and Zinc | b) Lead and Zinc |
| c) Zinc and Nickel | d) Lead and Nickel |
46. Brass is an alloy of _____.
- | | |
|--------------------|----------------------|
| a) Copper and Tin | b) Lead and Tin |
| c) Copper and Zinc | d) Copper and Silver |
47. TQM is meant to satisfy _____.
- | | |
|-------------------------------|-----------------|
| a) Shareholders | b) Consumers |
| c) People in the organization | d) All of these |
48. Which one of the following thread forms on bolts and nuts is meant for general fastening purposes?
- | | |
|--------------------|------------------|
| a) 'V' thread | b) Square thread |
| c) Knuckle threads | d) Acme threads |
49. A tab washer is used for _____.
- | | |
|-----------------------|-----------------------------|
| a) Self –locking | b) Locking the nuts |
| c) Avoiding vibration | d) Fastening vibration work |
50. In a pneumatic system, a sensor serves the purpose of _____.
- | | |
|-----------------|------------|
| a) Transmission | b) Control |
| c) Feedback | d) Storage |
