

18/A/C/S-4/4/E

IS-2

Booklet Series - B

036/227



PAPER - I
FITTER
(THEORY)
SEMESTER-IV

TIME : 3 HRS.

MARKS : 150

Note:- Attempt all the question.

All questions carry equal marks.

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

Choose the correct answer:-

1. Induction coil is made from _____ material.
(a) Mild steel (b) Copper
(c) Tin (d) Silver
2. Solder is an alloy of _____ & _____
(a) Tin and lead (b) Copper and zinc
(c) Copper and tin (d) Brass and zinc
3. Which metal is use for bit of hatched soldering iron?
(a) Brass (b) Copper
(c) Mild steel (d) Cast iron
4. Spelter is alloy of _____ & _____
(a) Tin and lead (b) Brass and zinc
(c) Copper and zinc (d) None of these
5. Which type of flux are used for brazing?
(a) Sodium carbonate (b) HCl
(c) Borax (d) Resin
6. What is the name of filler metal in brazing?
(a) Sweating (b) Spelter
(c) Base metal (d) Flux
7. Which is main advantage of interchangeability?
(a) Help for mass production (b) Less Rejection
(c) Part changeable after damages (d) All of these
8. Spirit level is used for _____
(a) Testing for machine (b) While machine is erected
(c) For starting of machine (d) Foundation of machine

Contd...2/

9. _____ is necessary for continues better production.
- (a) Routine maintenance (b) Break down maintenance
(c) Preventive maintenance (d) None of these
10. _____ gauge is used to checking external threads of pipe.
- (a) Thread gauge (b) Thread ring gauge
(c) Centre gauge (d) Thickness gauge
11. _____ is used for supplying water from main line.
- (a) Valves (b) Cock
(c) Taps (d) Union
12. In pipe line fitting accessory used to pipe pieces short or long is called
- (a) Union (b) Reducer
(c) Nipple's (d) Plug
13. Generally fitting for big diameter pipe joint _____ is used.
- (a) Flange (b) Socket
(c) Plug (d) Union
14. Which accessory is used for fitting branch line to main line?
- (a) Union (b) Elbow
(c) Tee (d) Flange
15. In pipe fitting which accessory is used for four way pipe fitting?
- (a) Socket (b) Elbow
(c) Tee (d) Cross
16. Which accessory is used in pipe fitting of different diameter pipe joint each other for increase the length?
- (a) Socket (b) Reducer
(c) Union (d) Flange

17. Which one is used for joint connection in pipe line without any destruction?
(a) Union (b) Plug
(c) Socket (d) Cross
18. Which of the following is the including angle of pipe thread?
(a) 29° (b) 27.5°
(c) 55° (d) 60°
19. Which of the following is a form of standard pipe thread?
(a) B.S.P. (b) B.S.F.
(c) B.S.W. (d) B.A.
20. In triangle of fire fuel, Heat and _____ both three most important Contribution substance.
(a) Oxygen (b) Fire
(c) Air (d) Water
21. Which one is use on A class fire?
(a) Pistol type fire extinguisher (b) Dry powder fire extinguisher
(c) Foam type fire extinguisher (d) Soda acid type fire extinguisher
22. The process of Electroplating on Metal surface is _____.
(a) Temporary (b) Semi-permanent
(c) Permanent (d) Above all
23. _____ material is use as sheathing material for avoid rust of Telephone and electrical underground wires.
(a) Nickel (b) Copper
(c) Lead (d) Tin
24. Which among is the lightest metal?
(a) Lead (b) Tin
(c) Aluminium (d) Copper
25. The main mechanical property of aluminium is _____.
(a) Soft (b) Brittle
(c) Strong (d) Tough

26. Brass is an alloy of _____ & _____
 (a) Copper & Tin (b) Lead & Tin
 (c) Copper & Zinc (d) Copper & Silver
27. Bronze is an alloy of _____ & _____
 (a) Copper & Tin (b) Lead & Tin
 (c) Copper & Zinc (d) Copper & Silver
28. Aluminium is base of _____ ore.
 (a) Iron ore (b) Copper pirate
 (c) Zinc alloy (d) Boxide
29. _____ is the most important non-metal used for electrical equipment because it is electric resistance substance.
 (a) Plastic (b) Rubber
 (c) Wood (d) Cement
30. Wood ruff Key having shape of _____
 (a) Taper circular (b) Round
 (c) Rectangular (d) half moon shape
31. When quick and accurate fastening of two matching part _____ is used.
 (a) Taper key (b) Cotter
 (c) Pins (d) Saddle key
32. For this coupling two flanges is use for two connecting shaft.
 (a) Flange coupling (b) Muff coupling
 (c) Flexible coupling (d) Old ham coupling
33. Cam is used for rotary motion is transfer to _____ motion.
 (a) Flat motion (b) Resiprocative
 (c) High Speed (d) Low speed

34. Jockey pulley is _____
 (a) Increase connecting portion on pulley
 (b) Gives more power of Driver Pulley
 (c) It gives various speed of Shaft
 (d) Step cone pulley has different dia
35. Face of the Pulley is make slightly convex in width. It is called
 (a) Flanck
 (b) Crowning
 (c) Effective diameter
 (d) Rim
36. The brass which is used in engineering work alloy 60% _____ & 40%
 (a) Copper & zinc
 (b) Copper & tin
 (c) Tin & zinc
 (d) Tin & lead
37. _____ metal alloying with steel make hard and rust proof its melting point is 1615°C.
 (a) Chromium
 (b) Nickel
 (c) Silver
 (d) Copper
38. The metal which is use for coating sheet because it is anticorrosive metal is
 (a) Aluminium
 (b) Tin
 (c) Zinc
 (d) Lead
39. For sepret machine independent motor is used called _____ drive.
 (a) Self drive
 (b) Group drive
 (c) Open drive
 (d) None of them
40. For gives varies speed ratio on machine _____ pulley is used.
 (a) Flat Pulley
 (b) V Groove Pulley
 (c) Step Cone Pulley
 (d) Jockey Pulley
41. In use 'V' belt drive avoid defect of _____
 (a) Slippage
 (b) Crippling
 (c) Cutting
 (d) Crowning



42. Pitch circle of gear & height of gear tooth is called _____
 (a) Addendum (b) Dedendum
 (c) Centre Distance (d) Face
43. The best example of semi-liquid lubricant is _____
 (a) Grease (b) Grafid
 (c) Castor Oil (d) Lord Oil
44. The purpose of normalizing steel is –
 (a) Remove induced stresses & refine grain size
 (b) Improve machinability
 (c) Soften the steel
 (d) Increase the toughness and reduce brittleness
45. The toughness in a steel is increased and brittleness is decrease by a treatment operation called as –
 (a) Annealing (b) Normalizing
 (c) Tempering (d) Case heading
46. Heat treatment of metals is necessary?
 (a) To produce certain desire properties
 (b) To make good appearance on the component
 (c) To increase strength of metals
 (d) To avoid corrosion on metal
47. Lower critical temperature of high carbon steel while hardening is
 (a) 960°C (b) 900°C
 (c) 723°C (d) 560°C
48. What is the main purpose of annealing?
 (a) To improve machinability & soften the steel (b) To improve magnetism
 (c) To improve hardness (d) To increase toughness

49. While normalizing the steel should be cooled _____
- (a) In still air to room temperature
(b) In oil
(c) In forced air
(d) In water
50. The process of increasing carbon percentage on the surface of low carbon steel is known as-
- (a) Hardening
(b) Nitriding
(c) Carburizing
(d) Tempering

