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

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Booklet Series - A

036/227

PAPER-I **FITTER** (THEORY) SEMESTER-IV

TIME: 3 HRS.

MARKS: 150

Note:- Attempt all the question.

This paper carries negative marking, 25% marks will be deducted for each wrong answ			
Cl	noose the correct answer:-	The strong answ	
1.	The purpose of normalizing steel is — (a) Remove induced stresses & refine gain size (b) Improve machineability (c) Soften the steel		
	(d) Increase the toughness and reduce brittleness		
2.	The toughness in a steel is increased and brittleness (a) Annealing	is decrease by a treatment operation called as (b) Normalizing	
	(c) Tempering	(d) Case heading	
3.	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		
1.	Lower critical temperature of high carbon steel while hardening is		
	(a) 960°C	(p) 800°C.	
	(c) 723°C	(d) 560°C	
j.	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	

6. While normalizing the steel should be cooled (a) In still air to room temperature (b) In oil (c) In forced air (d) In water



7. The process of increasing carbon percentage on the	surface of low carbon steel is known as-
(a) Hardening	(b) Nitriding
(c) Carburizing	(d) Tempering
8. Induction coil is made fromm	aterial.
(a) Mild steel	(b) Copper
(c) Tin	(d) Silver
9. Solder is an alloy of &	
(a) Tin and lead	(b) Copper and zinc
(c) Copper and tin	(d) Brass and zine
(c) copp.	
10. Which metal is use for bit of hatched soldering iron?	
(a) Brass	(b) Copper
(c) Mild steel	(d) Cast iron
(c) jyilla steel	
11. Spelter is alloy of &	
(a) Tin and lead	(b) Brass and zine
(c) Copper and zinc	(d) None of these
(c) Copper and Ame	
c a seem used for brazing?	
12. Which type of flux are used for brazing?	(b) HCL
(a) Sodium carbonate	(d) Resin
(c) Borax	(u) Resili
Caller metal in brazina?	
13. What is the name of filler metal in brazing?	(b) Smaltan
(a) Sweating	(b) Spelter
(c) Base metal	(d) Flux
14. Which is main advantage of interchangeability?	
(a) Help for mass production	(b) Less Rejection
(c) Part changeable after damages	(d) All of these
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15. Spirit level is used for			
(a) Testing for machine	(b) While machine is erected		
(c) For starting of machine	(d) Foundation of machine		
is necessary for continues	s better production.		
(a) Routine maintenance	(b) Break down maintenance		
(c) Preventive maintenance	(d) None of these		
17 gauge is used to checking	external threads of pipe.		
(a) Thread gauge	(b) Thread ring gauge		
(c) Centre gauge	(d) Thickness gauge		
is used for supply	ing water from main line.		
(a) Valves	(b) Cock		
(c) Taps	(d) Union		
19. In pipe line fitting accessory used to pipe			
(a) Union	(b) Reducer		
(c) Nipple's	(d) Plug		
20. Generally fitting for big diameter pipe jo	int is used.		
(a) Flange	(b) Socket		
(c) Plug	(d) Union		
21. Which accessory is used for fitting branel	Which accessory is used for fitting branch line to main line?		
(a) Union	(b) Elbow		
(c) Tee	(d) Flange		
22. In pipe fitting which accessory is used fo			
(a) Socket	(b) Elbow		
(c) Tee	(d) Cross		
23. Which accessory is used in pipe fitting	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		
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24. Which one is used for joint connection in pipe line without any destruction?		
(a) Union	(b) Plug	
(c) Socket	(d) Cross	
25. Which of the following is the including angle of pipe thread?		
(a) 29°	(b) 27.5°	
(c) 55°	(d) 60°	
26. 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.	
27. In this pale of Gro fire! Heat and	both three most '	
(a) Oxygen	_ both three most important Contribution substance. (b) Fire	
(c) Air	(d) Water	
(c) An	(d) water	
28. 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	
29. The process of Electroplating on Metal surface is		
(a) Temporary	(b) Semi-permanent	
(c) Permanent	(d) Above all	
30 material is use as sheathing material for avoid rust of Telephone and electric		
underground wires.	material for avoid rust of Telephone and electrical	
(a) Nickel	(b) Copper	
(c) Lead	(d) Tin	
31. Which among is the lightest metal?		
(a) Lead	(b) Tin	
(c) Aluminium	(d) Copper	
20 III		
32. The main mechanical property of aluminium is		
(a) Soft	(b) Brittle	
(c) Strong	(d) Tough	
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33. Brass is an alloy of &	
(a) Copper & Tin	(b) Lead & Tin
(c) Copper & Zinc	(d) Copper & Silver
34. Bronze is an alloy of &	
(a) Copper & Tin	(b) Lead & Tin
(c) Copper & Zinc	(d) Copper & Silver
35. Aluminium is base of ore.	
(a) Iron ore	(h) Copper six
(c) Zinc alloy	(b) Copper pirate (d) Boxide
(c) Zine andy	(u) Boxide
36. is the most important non-metal t	ised for electrical equipment because it is electric
resistance substance.	equipment because it is electric
(a) Plastic	(b) Rubber
(c) Wood	(d) Cement
37. Wood ruff Key having shape of	
(a) Taper circular	(b) Round
(c) Rectangular	(d) half moon shape
38. When quick and accurate fastening of two matching	part
(a) Taper key	is used. (b) Cotter
(c) Pins	(d) Saddle key
(6) 1	(d) Saddie Key
39. For this coupling two flanges is use for two connect	ing shaft.
(a) Flange coupling	(b) Muff coupling
(c) Flexible coupling	(d) Old ham coupling
40. Cam is used for rotary motion is transfer to	motion.
(a) Flat motion	(b) Resiprocative
(c) High Speed	(d) Low speed
41. Jockey pulley is	
(a) Increase connecting portion on pulley	(b) Gives many
(c) It gives various speed of Shaft	(b) Gives more power of Driver Pulley
(c) 11 B1100 14111000 al-1-1-2 or animal	(d) Step cone pulley has different dia
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42. Face of the Pulley is make slightly convex in width. It is called		
(a) Flanck	(b) Crowning	
(c) Effective diameter	(d) Rim	
43. The brass which is used in engineering work alloy	60% & 40%	
(a) Copper & zinc	(b) Copper & tin	
(c) Tin & zinc	(d) Tin & lead	
(c) Till & Zille	(=)	
44. metal alloying with steel make hard	and rust proof its melting point is 1615°C.	
(a) Chromium	(b) Nickel	
(c) Silver	(d) Copper	
45. The metal which is use for coating sheet because it		
(a) Aluminium	(b) Tin	
(c) Zinc	(d) Lead	
46. For sepret machine independent motor is used calle	d drive.	
(a) Self drive	(b) Group drive	
(c) Open drive	(d) None of them	
(c) open and		
47. For gives varies speed ratio on machine	pulley is used.	
(a) Flat Pulley	(b) V Groove Pulley	
(c) Step Cone Pulley	(d) Jockey Pulley	
48. In use 'V' belt drive avoid defect of		
(a) Slippage	(b) Crippling	
(c) Cutting	(d) Crowning	
49. Pitch circle of gear & height of gear tooth is called		
(a) Addendum	(b) Deddendum	
(c) Centre Distance	(d) Face	
50. The best example of semi-liquid lubricant is		
(a) Grease	(b) Grafid	
(c) Castor Oil	(d) Lord ()il	



