PAPER –I FITTER (THEORY) SEMESTER – II

Time: 3	Hrs.	Marks: 150
Note:	Attempt all the questions. All questions carry equal mar	ks.
Cho	ose the correct answer:	
1. Pr	ocess or the method of joining two	metals permanently is called –
***	a) Welding	b) Coupling
	c) Forging	d) Blacksmithy
	hich one of the following types of preading the shank of the rivet?	hammers is used for forming a rivet head by
	a) Ball peen hammer	b) Cross peen hammer
	c) Straight peen hammer	d) Soft hammer
3 A	grinding wheel marked with 'C' is	made with the –
3.11	a) Aluminium oxide	b) Silicon carbide
	c) Diamond	d) Corundum
4	is angle of twist drill.	
4	a) 118°	b) 138°
		d) 60°
	c) 90°	d) 60°
5. W	hich flame is suitable for welding o	of non-ferrous metals (brasses and bronzes)?
	 a) Oxidising flame 	b) Carburising flame
	c) Neutral flame	d) None of these
6. In	oxy-acetylene welding the flame to	emperature is –
	a) 1600-1700°C	b) 2000-2100°C
	c) 2500-2600°C	d) 3200-3300°C
7. In	oxy-acetylene welding color of oxy	ygen cylinder is –
, , , , , ,	a) Red	b) Maroon
	c) Black	d) Brown
8. Th	e inner cone of the flame has	temperature?
O+ 111	a) Highest	b) Coldest
	c) Moderate	d) Can't say
9. WI	hich of the following joint has high	corrosion resistance?

b) Riveted joint

d) None of these

a) Welding joint

c) Bolted joint

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10. Ac	etylene gas is stored in cylinders in –	•
	a) Solid form	b) Gaseous form
	c) Liquid form	d) Any one of these
	o) Elquid toim	4) 12.19 0110 01 111000
11. Ju	nction between weld face and base n	netal is known as?
11100	a) Throat	b) Toe
	c) Root	d) Puddle
	-,	
12. W	eld pass is associated with the move	ment of?
	a) Torch	b) Metal
	c) Flux	d) Electrode
13. A		the arc under no load condition is called?
	a) Open circuit current	b) Closed circuit current
	c) Short circuit current	d) Arc current
1.4 I.C	lear has suffered from alastric	hook ha should be
14.11	a worker has suffered from electric s	b) Given a cold drink
	a) Given an alcoholic drink	d) Kept warm and covered
	c) Made to walk	d) Kept warm and covered
15 W	hich type of fire extinguisher is used	in a welding shop?
15. **	a) Foam type extinguisher	b) Dry powder extinguisher
	c) CO ₂ extinguisher	d) Halon extinguisher
	o) coz emmganome	
16. F	or tapping with M5 tap. What size dr	ill will you use?
	a) 4.5 mm	b) 4.0 mm
	c) 3.8 mm	d) 3.5 mm
17. W	hich coolant is used for drilling the a	
	a) Dry air	b) Kerosene
	c) Soluble oil	d) Mineral oil
10 1		located an
18. In	a vernier micrometer, vernier scale i	
	a) Thimble	b) Spindle d) Frame
	c) Barrel	u) Flatte
19.	is an operation of bevelling the	end of a drilled hole
19	a) Hacksawing	
	c) Countersinking	d) Turning
	o) countersmanig	4) 144
20. Th	ne angle of countersink rivets are –	
	a) 80°	b) 90°
	c) 75°	d) 120 ⁰
21. Th	e charge is fed into the blast furnace	
	a) Throat	b) Stack
	c) Bosh	d) Tuyere
22	are useful for heavy duty work	
	a) Countersink with pilot	b) Countersink with one flute
	c) Countersink with two flutes	d) All of these
		created with
		nitro professional
		gownload the tree that online at historial com/professional

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23. The point angle of twist drill depends u					
a) Cutting speed	b) Type of drilling machine				
c) Size of the drill	d) Material to be drilled				
24 angle is the angle of flute.					
a) Helix	b) Point				
c) Clearance	d) Rake				
0) 0.1011.1111					
25. Reasons for overheated drills –					
a) Cutting speed is too high	b) Feed rate is too high				
c) Clearance angle is incorrect	d) All of the above				
c) Clearance ungle is moorreet	4) 111 01 110 00 00				
26. Twist drills are designated by –					
a) Diameter	b) Tool Type				
,	d) All of these				
c) Material	d) All of these				
27. The meterial used for continue of algotro	ode is called				
27. The material used for coating of electrons Plander	b) Flux				
a) Blander	,				
c) Slag	d) All of these				
1 6	141				
28 is used to remove slags from we	lding joints.				
a) Chipping hammer	b) Wire brush				
c) Welding hand screen	d) Tongs				
29. Helical grooves on body of reamers are					
a) Flutes	b) Face				
c) Heel	d) Recess				
30. Small flat surface in between cutting ed	dge and the heel of a reamer is known as –				
a) Flutes	b) Face				
c) Heel	d) Land				
31. Reduction in body diameter toward sha	nk of reamer is known as –				
a) Flutes	b) Face				
c) Heel	d) Recess				
32. Taper shank of reamer can be gripped by –					
a) Flutes	b) Face				
c) Heel	d) Shank				
0) 11001	-/				
33. A screw thread is designated as 1" B.S.P. thread, in 1 inch B.S.P. thread what 1"					
indicates?	The first of the f				
a) Major diameter of thread	b) Minor diameter of thread				
	d) Hole diameter of pipe				
c) Pitch diameter of thread	a) Hole diameter of pipe				
34. The grain size of a grinding wheel is indicated by numbers, which range of grain size					
referred to as 'Very Fine'?	1) 20 (0				
a) 10 – 24	b) 30 - 60				
c) 80 – 180	d) 220 – 600				



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35. It is commonly observed that the face of a grinding wheel becomes shiny and smooth or glazed after some use due to one of the reasons stated below?

a) Grade of wheel is too hard

b) Abrasive of the wheel not suitable for the purpose

c) Grain size is too coarse

d) Structure of the wheel is too open

36. Which of the following symbols range of alphabet represent soft grain in grinding wheel?

a) A - H

b) I - P

c) Q-T

d)T-Z

37. Which of the following is correct range for grain number of grinding wheel for coarse grains?

a) 220-600

b) 80-180

c) 30-60

d) 10-24

38. What will be the result if the clearance angle in drill is increased?

a) Poor wedging action

b) Weak cutting edge

c) Rough hole surface

d) Increased point angle

39. A product is said to have the quality when?

a) Its shape and dimensions are within the limits

b) It appears to be very good

c) It is fit for use

d) The choice of material is right

40. How do you recognize a drill for soft metal?

a) By the large helix angle

b) By the small helix angle

c) By the chisel edge angle

d) By the point angle which is 90°

41. Presence of which material in a gray cast iron causes reduced ductility?

a) Graphite

b) Aluminum

c) Coke

d) Zinc

42. Which is closest to the purest form of the iron?

a) Cast Iron

b) Wrought Iron

c) Pig Iron

d) Steel

43. The relief angle given behind the cutting lips is called –

a) Lip clearance angle

b) Helix angle

c) Rake angle

d) Chisel edge angle

44. What is contained inside the well of cupola?

a) Molten iron

b) Solid iron

c) Molten steel

d) Solid steel

45. What is the range of efficiency of cupola?

a) 20% to 40%

b) 30% to 50%

c) 40% to 60%

d) 50% to 70%



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46. What is the main source of high carbon steel material?					
	a) Pig iron	b) Cast iron			
	c) White iron	d) Steel scrap			
		,			
47	The product from blast furnace is called	1 –			
17.	a) Cast Iron	b) Wrought Iron			
	c) Pig Iron	d) Steel			
	c) rig non	d) Steel			
40. The westernial of truits doubt is comparable.					
40.	The material of twist drill is generally -				
	a) H.S.S.	b) Carbide steel			
	c) Diamond	d) Cast steel			
		11 11 11 11 11 11 11 11			
49.	Which of the following is not a materia				
	a) Cranes	b) Lifts			
	c) Tongs	d) Hoists			
50. Which type of maintenance is not directly included in the total maintenance cost, but					
	might be a component of total cost?				
	a) Preventive	b) Breakdown			
	c) Predictive	d) None of these			
	c) i redictive	4) 110110 01 111000			

