Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	The thickness of the SWG No: 10 is:						
	(A)	2.6 mm	(B)	3.2 mm			
	(C)	2 mm	(D)	1.6 mm			
2.	Maximum	SWG number is:					
	(A)	50	(B)	1			
	(C)	1/0	(D)	7/0			
3.	Mass/unit	t area for 1 mm thick steel is:					
	(A)	8.65 Kg/m ²	(B)	7.73 Kg/m ²			
	(C)	5.3 Kg/m ²	(D)	6.66 Kg/m ²			
4.	Unit of fo	rce in S.I system:					
	(A)	Kg	(B)	Kgf			
	(C)	N	(D)	N-m			
5.	What is Y	Toung's modulus of elasticity?					
	(A)	force/area	(B)	load/area			
	(C)	stress/strain	(D)	strain/stress			
6.	Unit of st	tress in S.I system :					
	(A)	N/m	(B)	N/m1			
	. (C)	N/m²	(D)	N/m ³			
7.	Melting p	point of pure aluminum is:					
	(A)	419°C	(B)	660°C			
	(C)	232°C	(D)	1300°C			
8.	Density i	is:					
	(A)	mass/area	(B)	mass/volume			
	(C)	force/area	(D)	volume/mass			

Melting p	ooint of Tin is:		
(A)	419°C	(B)	660°C
(C)	232°C	(D)	1300°C
Volume o	f sphere of radius 'r' is :		
(A)	$1/3\pi r^3$	(B)	$4/3\pi r^{3}$
(C)	2/3zr ³	(D)	nr ³
Unit of le	ngth in metric system:		
(A)	inch	(B)	mm
(C)	cm	(D)	m
The perin	neter of a circle diameter 'd' is :		
(A)	πd	(B)	$2\pi d$
(C)	1/3πd	(D)	4/3πd
Which is	the lowest value?		
(A)	1/2	(B)	1/3
(C)	1/4	(D)	2/3
The value	of 5/100 + 3/1000 is:		
(A)	5.3	(B)	0.53
(C)	0.053	(D)	0.0053
Unit of el	ectric current is :		
(A)	Volt	(B)	Amp
(C)	Watts	(D)	Ohm
Mallet is	made of:		
(A)	steel	(B)	wrought iron
(C)	hard wood	(D)	cast iron
Angle of d	lot punch is :		
(A)	30°	(B)	45°
(C)	60°	(D)	90°
	(A) (C) Volume of (A) (C) Unit of let (A) (C) Which is (A) (C) The value (A) (C) Unit of elet (A) (C) Angle of d (A) (C)	Volume of sphere of radius 'r' is: (A) 1/3\pir^3 (C) 2/3\pir^3 Unit of length in metric system: (A) inch (C) cm The perimeter of a circle diameter 'd' is: (A) \pid (C) 1/3\pid Which is the lowest value? (A) 1/2 (C) 1/4 The value of 5/100 + 3/1000 is: (A) 5.3 (C) 0.053 Unit of electric current is: (A) Volt (C) Watts Mallet is made of: (A) steel (C) hard wood Angle of dot punch is: (A) 30°	(A) 419°C (B) (C) 232°C (D) Volume of sphere of radius 'r' is: (A) 1/3πr³ (B) (C) 2/3πr³ (D) Unit of length in metric system: (A) inch (B) (C) cm (D) The perimeter of a circle diameter 'd' is: (A) πd (B) (C) 1/3πd (D) Which is the lowest value? (A) 1/2 (B) (C) 1/4 (D) The value of 5/100 + 3/1000 is: (A) 5.3 (B) (C) 0.053 (D) Unit of electric current is: (A) Volt (B) (C) Watts (D) Mallet is made of: (A) steel (B) (C) hard wood (D) Angle of dot punch is: (A) 30° (B)

18.	If wire diameter 'D' the wiring allowance for sheet metal work is:				
	(A)	1.5 D	(B)	2 D	
	(C)	2.5 D	(D)	3 D	
19.	Which is	the leak proof joint in sheet	metal work?		
	(A)	pane	(B)	grooved	
	(C)	lock grooved	(D)	riveted	
20.	The abilit	y of material to resist fract	ure due to high im	pact load is :	
	(A)	strength	(B)	stiffness	
	(C)	toughness	(D)	hardness	
21.	The prope	erty of material which enab	les it to retain the	deformation permanently is:	
	(A)	brittleness	(B)	ductility	
	(C)	malleability	(D)	plasticity	
22.	Which of the following material has maximum ductility?				
	(A)	mild steel	(B)	copper	
	(C)	aluminum	(D)	zinc	
23.	The prope	erty of a material due to wh	nich it breaks with	little permanent distortion :	
	(A)	brittleness	(B)	ductility	
	(C)	malleability	(D)	plasticity	
24.	Which of	the following material has	maximum malleal	pility?	
	(A)	copper	(B)	soft steel	
	(C)	wrought iron	(D)	lead	
25.	Iron ore i	s usually found in form of:			
	(A)	oxides	(B)	hematite	
	(C)	limonite	(D)	pyrite	
26.	Steel con	taining 0.8 to 1.5% carbon	is known as :		
	(A)	mild steel	(B)	dead mild steel	
	(C)	medium carbon steel	(D)	high carbon steel	
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27.	Cutting to	ools are made from :		
	(A)	nickel steel	(B)	chrome steel
	(C)	high speed steel	(D)	silicon steel
28.	Which of	the following is an amorphous mat	terial?	
	(A)	glass	. (B)	mica
	(C)	lead	(D)	brass
29.	The heat	treatment process used for softeni	ng hardene	ed steel:
	(A)	carburizing	(B)	normalizing
	(C)	annealing	(D)	tempering
30.	Which of t	the following is a case hardening p	rocess?	
	(A)	carburizing	(B)	cyaniding
	(C)	nitriding	(D)	all of the above
31.	Brass is a	n alloy of ;		
	(A)	copper & zinc	(B)	copper & tin
	(C)	copper, zinc & tin	(D)	none of the above
32.	Bronze is	an alloy of :		
	(A)	copper & zinc	(B)	copper & tin
	(C)	copper, zinc & tin	(D)	none of the above
33.	Structura	l sections which as rail, angles, I I	Beams are i	made by :
	(A)	hot rolling	(B)	hot drawing
	(C)	hot extrusion	(D)	hot spinning
34.	The parts made by:	of circular cross section which	are symm	etrical about the axis of rotation are
	(A)	hot forging	(B)	hot spinning
	(C)	hot extrusion	(D)	hot drawing

35. The process extensively under for making bolt and nut is:			18:	
	(A)	hot piercing	(B)	extrusion
	(C)	cold peening	(D)	cold heading
36.	The proce	ss of increasing the cro	oss section of a bar and	decrease its length is called:
	(A)	drawing-down	(B)	upsetting
	(C)	spinning	(D)	peening
37.	The proce	ss of decreasing the cr	oss-section of a bar and	l increasing its length is called:
	(A)	drawing down	(B)	upsetting
	(C)	spinning	(D)	peening
38.	The opera	ation of cutting a cylin	ndrical hole in a sheet	of metal by the punch and the die is
	(A)	shearing	(B)	piercing
	(C)	punching	(D)	blanking
39.	The opera	ation of cutting a flat s	heet to the desired sha	pe is called :
	(A)	shearing	(B)	piercing
	(C)	punching	(D)	blanking
40.	The opera	ation of cutting a sheet	t of metal in a straight	line along the length is known as:
	(A)	plunging		notching
	(C)	slitting	(D)	forming
41.	The oper	ation of bending a shee	et of metal along a curv	red axis is known as :
	(A)		(B)	notching
	(C)	slitting	(D)	forming
42.		eation of producing cu ow of metal is known a		at sheet metal blanks by bending and
	(A)	drawing	(B)	squeezing
	(C)	eoining	(D)	embossing
43.	The oper	ation of straightening	a curve sheet metal is	known as:
	(A)	drawing	(B)	squeezing
	(C)	coining	(D)	planishing

44.	Blanking	and piercing operation can be perforn	ned sin	nultaneously in a :
	(A)	single die	(B)	progressive die
	(C)	compound die	(D)	combination die
45.	Cutting a	and forming operation can be performe	d in a	single operation in a:
	(A)	single die	(B)	progressive die
	(C)	compound die	(D)	combination die
46.	In piercir	ng operation, the clearance is provided	on:	
	(A)	puneh	(B)	die
	(C)	half on the punch & half on the die	(D)	either on punch or die
47.	In blanki	ng operation, the clearance is provided	on:	
	(A)	punch		
	(B)	die	4	
	(C)	half on the punch & half on the die		
	(D)	either on punch or die		
48.	Lap joints	s are employed on plates having thickr	iess:	
	(A)	less than 3 mm	(B)	5 to 10 mm
	(C)	12.5 mm	(D)	above 25 mm
49.	Seam wel	ding is best adopted for metal thickness	ss rang	ring from :
	(A)	0.025 to 3 mm	(B)	3 to 5 mm
	(C)	5 to 8 mm	(D)	8 to 10 mm
50.	Acetylene	gas is stored in cylinder in the form of	f:	
	(A)	solid	(B)	liquid
	(C)	gaseous	(D)	any one of the form
51.	The oxyge	n cylinder is usually painted with:		
	(A)	black colour	(B)	white colour
	(C)	maroon colour	(D)	yellow colour

52.	Flux com	monly used in brazing is:		
	(A)	zinc chloride	(B)	ammonium chloride
	(C)	rosin plus	(D)	borax
53.	A zinc dif	fusion process is called:		
	(A)	galvanizing	(B)	anodizing
	(C)	parkerising	(D)	sheradising
54.	In order t	o cut mild steel, the cutting angle o	f chisel sh	ould be :
	(A)	30°	(B)	45°
	(C)	50°	(D)	60°
55.	The cold o	hisel are made by:		
	(A)	drawing	(B)	rolling
	(C)	piercing .	(D)	forging
56.	The cross	section of a chisel is usually:		
	(A)	circular	(B)	square
	(C)	hexagonal	(D)	octagonal
57.	The cuttir	ng edge of a chisel should :		
	(A)	hardened	(B)	tempered
	(C)	annealed	(D)	hardened and tempered
58.	A hacksay	v blade cuts on the :		
	(A)	forward stroke		
	(B)	return stroke		
	(C)	both return and forward		
	(D)	cutting depends up on the direction	on of force	
59.	A hack sa	w blade is specified by its:		
	(A)	length	(B)	materials
	(C)	width .	(D)	number of teeth

60.	To prevent the body of the blade from jamming in the saw cut; the teeth of the blade are:					
	(A)	strengthened	(B)	sharpened		
	(C)	set	(D)	all of the above		
61.	A file wit	h 20 teeth in 25 mm is called:				
	(A)	rough file	(B)	bastard file		
	(C)	second cut file	(D)	smooth file		
62.	A file rem	noves the metal during:				
	(A)	forward stroke	(B)	return stroke		
	(C)	both forward and return stroke	(D)	none of the above		
63.	The type	of file used for a wood work is:				
	(A)	single cut file	-(B)	double cut file		
	(C)	rasp cut file	(D)	any one of the above		
64.		ument used to measure external and a of holes is:	l interna	al diameter of shafts, thickness of parts		
	(A)	outside micrometer	(B)	vernier caliper		
	(C)	inside micrometer	(D)	depth gauge micrometer		
65.	The accur	racy of micrometers, calipers, dial ind	dicators	can be checked by :		
	(A)	feeler gauge	(B)	slip gauge		
	(C)	ring gauge	(D)	plug gauge		
66.	A ring gau	age is used to :				
	(A)	check the diameter of shafts				
	(B)	test the accuracy of holes				
	(C)	check the clearance between two m	ating su	rface		
	(D)	all of the above				
67.	The drill s	spindles are provided with standard	taper kn	own as:		
	(A)	morse taper	(B)	seller taper		
	(C)	champman taper	(D)	brown and sharp taper		