## Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	The thick	ness 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	area for 1 mm thick steel is:		
	(A)	8.65 Kg/m <sup>2</sup>	(B)	7.73 Kg/m <sup>2</sup>
	(C)	5.3 Kg/m <sup>2</sup>	(D)	6.66 Kg/m <sup>2</sup>
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	cress in S.I system :		
	(A)	N/m	(B)	N/m <sup>1</sup>
	. (C)	N/m²	(D)	N/m³
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)	1/3m²	(B)	4/3mr <sup>3</sup>
(C)	2/3zr <sup>3</sup>	(D)	nr3
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)	2πd
(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 o (A) (C) Unit of le (A) (C) The perin (A) (C) Which is (A) (C) The value (A) (C) Unit of el (A) (C) Angle of d (A)	Volume of sphere of radius 'r' is:  (A) 1/3πr³ (C) 2/3πr³  Unit of length in metric system: (A) inch (C) cm  The perimeter of a circle diameter 'd' is: (A) πd (C) 1/3πd  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 ductilit	y?	
	(A)	mild steel	(B)	copper	
	(C)	aluminum	(D)	zine	
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	

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 F	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.	5. The process extensively under for making bolt and nut is:			
	(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 of	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	n of force	
59.	A hack sa	w blade is specified by its:		
	(A)	length	(B)	materials
	(C)	width	(D)	number of teeth

60.	To prever	nt the body of the blade from jammin	g 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

68.	The opera	ation making a cone shaped enlarge	ment of th	ne end of a hole is known as:
	(A)	counter sinking	(B)	counter boring
	(C)	trepanning	(D)	spot facing
69.	Which of	the following operation is first perfe	ormed?	
	(A)	spot facing	(B)	boring
	(C)	tapping	(D)	drilling
70.	The drill	mainly used in drilling brass, coppe	er or softer	material:
	(A)	flat drill	(B)	straight fluted drill
	(C)	parallel shank twist drill	(D)	tapered shank twist drill
71.	The usual	value of the point angle of a drill is	s:	
	(A)	70°	(B)	100°
	(C)	118°	(D)	130°
72.	For softer	materials the point angle of a drill	is:	
	(A)	equal to 118°	(B)	less than 118°
	(C)	more than 118°	(D)	any one of the above
73.	Twist dril	l are made of :		
	(A)	high speed steel	(B)	carbon steel
	(C)	stainless steel	(D)	either (A) or (B)
74.	A tool use	d to withdraw a drill from the sleev	ve is called	1:
	(A)	drill remover	(B)	drift
	(C)	drill puller	(D)	drill drawer
75.	The unit of	of temperature in S.I. system :		
	(A)	°C	(B)	°F
	(C)	°K	(D)	J
76.	"V" block	is used to:		
	(A)	check the trueness of flat surface	(B)	locate centre of round roads
	(C)	check the surface roughness	(D)	none of the above

77.	Thin gears from sheet metal can be produced commercially by:				
	(A)	gear hobbing	(B)	gear shaping	
	(C)	extruding	(D)	stamping	
78.	A good lu	bricant for thread cutting op	eration:		
	(A)	graphite	(B)	white lead	
	(C)	mineral lard oil	(D)	water soluble oil	
79.	Surface g	rinding is done to produce :			
	(A)	tapered surface	(B)	flat surface	
	(C)	internal cylindrical hole	(D)	all of the above	
80.	The proce	ss of improving the cutting a	action of the grin	ding wheel is called:	
	(A)	truing	(B)	dressing	
	(C)	facing	(D)	clearing	
81.	"Freedom	is my birth right" is a famou	us slogan of :		
	(A)	Gopalakrishna Gohale	(B)	Balagangathar Thilak	
	(C)	Bipin chandrapal	(D)	Lala Lajapat Rai	
82.	Partition	of Bengal is decided during t	he administratio	on of:	
	(A)	Lord Curzon	(B)	Lord Wellesly	
	(C)	Lord Carning	(D)	Lord Dalhousi	
83.	Jallianwa	lla Bhag Massacre occurred	on:		
	(A)	1919 April 3	(B)	1919 April 8	
	(C)	1919 April 13	(D)	1919 April 18	
84.	Find the o	dd one out :			
	(A)	Gopalakrishna Gohale	(B)	Balagangathar Thilak	
	(C)	Bipin chandrapal	(D)	Lala Lajapat Rai	

85.	The sloga	n "Do or Die" is raised during :		
	(A)	Swadesi movement	(B)	Civil Disobedience Movement
	(C)	Non Co-Operation Movement	(D)	Quit India Movement
86.	Chauri-ch	aura incident happened in the year :		
	(A)	1919	(B)	1921
	(C)	1922	(D)	1923
87.	The leade	r of Rani Jansi Brigade of INA :		
	(A)	Sarojini naidu	(B)	Captain lakshmi
	(C)	Vijayalakshmi Pandit	(D)	Jhansi Rani
88.		is known as frontier Gandhi.		
	(A)	Mahatma Gandhi	(B)	Indira Gandhi
	(C)	Firoz Gandhi	(D)	Khan Abdul Gaffer Khan
89.	The Rena	issance leader of Modern Kerala :		
	(A)	Srinarayana Guru	(B)	Chattampi Swamikal
	(C)	Vakkom Abdul Khader Moulavi	(D)	Kumaranasan
90.	Kerala Ga	ındhi :		
	(A)	I.K.Kumaran	(B)	A.K.Gopalan
	(C)	K.Kelappan	(D)	Dr.Palppu
91.	Founder of	of 'Swadeshabhimani' news paper :		
	(A)	Swadesh abhimani Ramakrishnapill	ai	
	(B)	Vakkom Abdul Khader Moulavi		
	(C)	K.C.Mamman Mappilai		
	(D)	P .Govindapillai		
92.	Who is kn	own as 'Pulaya Raja'?		
	(A)	Dr.Palppu	(B)	Srinarayana Guru
	(C)	K.Kelappan	(D)	Ayyankali

93.	Guruvayu	r Sathyagraha started in:		
	(A)	1930	(B)	1931
	(C)	1936	(D)	1933
94.	The Magn	akartta of Modern Travancore :		
	(A)	Temple Entry Proclamation	(B)	Malayalee Memorial
	(C)	Ezhava Memorial	(D)	Punnappara Vayalar Strike
95.	Founder o	of Sadhu Jana Paripalana sangan	1:	
	(A)	S.Ayyappan	(B)	Dr. Palppu
	(C)	Ayyankali	(D)	Sreenarayana Guru
96.	The first	war of independence started at:		
	(A)	Lucknow	(B)	Delhi
	(C)	Calcutta	(D)	Meerut
97.		session of congress demand	ed Poorna S	Swaraj.
	(A)	Lahore	(B)	Bombay
	(C)	Meerut	(D)	Calcutta
98.	Congress	participated in the Round Table (	Conference l	neld in :
	(A)	1930	(B)	1931
	(C)	1932	(D)	1929
99.	The Foun	der of Swaraj Party :		
	(A)	Motilal Nehru	(B)	Subhash Chandrabose
	(C)	Gandhiji	(D)	C.R.Das
100.	The book	'Malabar Mannual' written by :		
	(A)	Brannan	(B)	C.F.Andrews
	(C)	William Logan	(D)	Herman Gundart