Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	An oily flo	oor should be cleaned by:		
	(A)	Cotton waste	(B)	Putting water
	(C)	Putting saw dust or sand	(D)	Spraying carbon dioxide
2.	The file u	sed for trimming the rough edge	s of soft met	al casting:
	(A)	Bastard file	(B)	Rough file
	(C)	Rasp file	(D)	Second cut file
3.	The cutti	ng angle for chipping mild steel	is:	
	(A)	65°	(B)	45°
	(C)	55°	(D)	60°
4.	The box r	nut of bench vice is made of:		
	(A)	Mild steel	(B)	Gun metal
	(C)	Phospharous bronze	(D)	Alloy steel
5.	The point	angle of drill depends on:		
	(A)	Drill materials	(B)	Work materials
	(C)	The size of drill	(D)	The R.P.M and feed of the work
6.		ance, which the cutting edge of g, is known as:	a tool passe	s over the material in a minute while
	(A)	RPM	(B)	Feed
	(C)	Machine speed	(D)	Cutting speed
7.	The suits	ble cutting fluid for drilling mile	d steel in a ce	ntre lathe is:
	(A)	Distilled water	(B)	Synthetic soluble oil
	(C)	Soluble oil	(D)	Mineral oil
8.	The proce	ess of enlarging the end of hole f	or accommod	
	(A)	Counter boring	(B)	Counter sinking
	(C)	Spot facing	(D)	Step boring

9.	Calculate	Calculate the tapping hole size for a M10 × 1.5 precision screw thread:					
	(A)	8.2	(B)	8.5			
	(C)	10	(D)	9.2			
10.	The purp	ose of rake angle is :					
	(A)	To prevent the flank of the tool rub	bing wit	th the work piece			
	(B)	To increase the tool life					
	(C)	To prevent tool from jamming					
	(D)	To guide the chip away and avoid c	logging				
11.	The main	advantage of orthogonal cutting is:					
	(A)	It distributed load on larger area					
	(B)	It is suitable for rough turning					
	(C)	More depth of cut can given					
	(D)	Suitable for finish turning					
12.	The most	important quality of any cutting flui	d is:				
	(A)	Emulsification	(B)	Viscosity			
	(C)	Specific gravity	(D)	Adhesiveness			
13.		und 30 mm dia. and 100 mm length o.m and feed rate is 200 and 0.2 mm		e turned 25 mm dia. in one cut for full vely, turning time is:			
	(A)	2.5 minutes	(B)	5 minutes			
	(C)	2 minutes	(D)	5.5 minutes			
14.	Lathe bed	i are made out of:					
	(A)	White cast iron	(B)	Grey cast iron			
	(C)	Alloy steel	(D)	General purpose steel			
15.	The centr	e drill size is selected on the basis of					
	(A)	Length of work	(B)	Type of operation			
	(C)	Diameter of work	(D)	Material of the work			
16.	Running	the drill too fast, result in :					
	(A)	Rough hole	(B)	Spoiling the cutting edge			
	(C)	Over sized hole	(D)	Poor surface finish			

17.	The includ	ded angle of vee groove in 'V' block is:				
	(A)	45°	(B)	90°		
	(C)	120°	(D)	60°		
18.	Which of t	he following is NOT the part of combi	nation	set?		
	(A)	Centre head	(B)	Rule		
	(C)	Swivell head	(D)	Protractor head		
19.	When the		n the ta	ailstock spindle bore, the device to hold		
	(A)	Drill socket	(B)	Drill sleeve		
	(C)	Drill drift	(D)	Drill chuck and key		
20.	For a hole	$\phi$ 10 mm, the reaming allowance sho	ould be	about:		
	(A)	0.2 mm	(B)	2 mm		
	(C)	0.4 mm	(D)	0.6 mm		
21.	The tail s	tock offset method of taper turning, ar	nount	of offset may be measured:		
	(A) Using micrometer, caliper with offset gauge					
	(B)	B) Vernier depth gauge and steel rule				
	(C)	Steel rule measure the distance between dead centre and tool				
	(D)	(D) Using cross slide graduated collar and feeler gauge				
22.	The proper is known		rs resi	stance of abrasion, indentation or wear		
	(A)	Hardness	(B)	Toughness		
	(C)	Malleability	(D)	Ductility		
23.	The least	count of vernier bevel protractor is:				
	(A)	0.5'	(B)	5'		
	(C)	5"	(D)	0.5°		
24.	For grind	ing carbide materials:				
	(A)	Aluminium oxide wheel is used	(B)	Carundum wheel is used		
	(C)	Diamond wheel is used	(D)	Silicon carbide wheel is used		
25.	A grindin	g wheel is marked 51 A 46 K 5VBE. V	What do	es 5 denote:		
	(A)	Kind of abrasive	(B)	Kind of bond		
	(C)	Structure	(D)	Grain size		

20.	The teeth	of nacksaw blade are set to:					
	(A) Provide clearance for blade						
	(B)	(B) Prevent jamming and breakage of blade					
	(C) The cut is to be broader than the-thickness of the saw blade						
	(D)	All of above					
27.	The pitch	of 3-start thread is lead divided by:					
	(A)	1	(B)	3			
	(C)	9	(D)				
28.	Which of	following reamer particularly suitable I	or rea	aming holes having key way groove:			
	(A)	Pilot reamer	(B)	Taper reamer			
	(C)	Helical reamer	(D)	Straight fluted reamer			
29.	The effect	of using glazed or loaded wheel is:					
	(A)	Poor surface finish					
	(B)	More heat generated					
	(C)	Excessive cutting pressure between the	ne wh	eel face and work surface			
	(D)	All of above					
30.	Screw thr	eads are produced without metal remo	ving b	by a process called:			
	(A)	Thread chasing	(B)	Thread rolling			
	(C)	Tapping	(D)	Thread grinding			
31.	Buttress	threads are most commonly used for :					
	(A)	Resisting force exerted in one direction	n				
	(B)	Special bolt and nut in structural wor	k				
	(C)	Transmission of motion					
	(D)	By lift heavy load					
32.	In hole ba	sis system:					
	(A)	The size of the shaft is made constant					
	(B)	The size of the hole is made constant					
	(C)	The permissible tolerance are given o	n the	hole and shaft			
	(D)	Only allowance is given on hole					

33.	. The pattern of the work surface caused by movement of cutting tool is known as:			
	(A)	Waviness	(B)	Roughness
	(C)	Roughness spacing	(D)	Surface texture
34.	Which on	e of following indicates the Ra value:		
	(A)	0.001 mm	(B)	0.00001 mm
	(C)	0.0001 mm	(D)	0.01 mm
35.	Lathe ma	indrels can be termed as:		
	(A)	Jig	(B)	Gauge
	(C)	Fixure	(D)	Template
36.	Jig is dev	ice which:		
	(A)	Locate the work piece	(B)	Guide the cutting tool
	(C)	Hold and supports the work piece	(D)	All of above
37. Cast iron is used for manufacturing machine beds because:			ause:	
	(A)	It is harder and brittle metals	(B)	It can resist more compressive stress
	(C)	It is heavy in weight	(D)	It is cheaper metal
38.	Galvanize	ed iron is coated with:		
	(A)	Zinc	(B)	Copper
	(C)	Tin	(D)	Lead
39.	Bronze is	an alloy of:		
	(A)	Copper and tin	(B)	Copper and zinc
	(C)	Copper and lead	(D)	Lead and tin
40.	Which on	e of the following is physical property	of met	al?
	(A)	Corrosiveness	(B)	Malleability
	(C)	Ductility	(D)	Fusibility
41.	Liquid ca	rburising is done in heated salt bath	which o	ne of following NOT a carburising salt:
	(A)	Sodium carbonate	(B)	Sodium sulphate
	(C)	Barium choloride	(D)	Sodium cynide

42.	Lead is a that lead		ng lath	e face plate works the reason for this is
	(A)	Most toughest	(B)	Heaviest
	(C)	Most elastic	(D)	Most ductile
43.	Which on	e of following metal has less carbon c	ontent:	
	(A)	Wrought iron	(B)	Cast iron
	(C)	Mild steel	(D)	Pig iron
44.	Annealin	g is a process of heating the steel above	ve uppe	r critical temperature and cool it:
	(A)	Atmospheric air	(B)	Quenching in oil
	(C)	Covered with dry ash or dry lime	(D)	Quenching in casustic soda
45.	Centre lin	ne of the contact rollers and datum su	rface of	the sine bar are:
	(A)	Parallel	(B)	Perpendicular
	(C)	Inclined	(D)	Same line
46.	In a verni	ier micrometer, vernier scale is gradu	ated on	
	(A)	Thimble	(B)	Frame
	(C)	Spindle	(D)	Barrel
47.	Which ins	strument is used for checking the insi	de size	of slots or holes:
	(A)	Comparator gauge	(B)	Snap gauge
	(C)	Ring gauge	(D)	Telescopic gauge
48.		one of the following standard tapers specification is given in number:	, it is e	asy to determine the taper dimensions
	(A)	Jarno taper	(B)	Morse taper
	(C)	Metric taper	(D)	Brown and sharpe taper
49.	In a mult bolt:	i start thread, the axial advancement	of bolt	in to the nut for each revolution of the
	(A)	Root	(B)	Lead
	(C)	Crest	(D)	Pitch

		+0.02		+0.03
	(A)	600.00	(B)	60+0.01
	(C)	60 0.01	(D)	60±0.02
51.		a lathe meant for bar work has a b w main spindle has a provision to m		nechanism and a hollow main spindle.
	(A)	For Jaw chuck	(B)	Self centering chuck
	(C)	Collect chuck	(D)	Combination chuck
52.	Which tap	per is used on spindle nose of the la	the head	stock?
	(A)	Brown and sharpe taper	(B)	Morse taper
	(C)	Jarno taper	(D)	Pin taper
53.		he machines have built in co-ordin tion system is called:	ates mea	suring system, the zero position of this
	(A)	Work zero point	(B)	Machine zero point
	(C)	Reference point	(D)	Program zero point
54.	Which on	e of following factors will NOT influ	ence the	selection of cutting speed?
	(A)	Work material	(B)	Operation to be performed
	(C)	Tool material	(D)	Diameter of work piece
55.	Taper tur	ning by using compound slide meth	od can ca	use the following defect?
	(A)	Chatter	(B)	Steep taper can't produced
	(C)	Internal taper can't produced	(D)	Poor surface finish
56.	Tool make	ers buttons are used for:		
	(A)	Setting the tool correct centre hei	ght	
	(B)	Aligning the work piece for boring	to given	datum
	(C)	Adjusting the slackness in guid w	ays of cro	ss-slide
	(D)	Holding the work piece and Guidi	ng the too	ol
57.	When usi	ng taper turning attachment, the de	epth of cu	t given by?
	(A)	Compound slide	(B)	Cross - slide
	(C)	Tail stock	(D)	Adjusting tool

58.	A followe	r steady consists of:		
	(A)	One pad	(B)	Four pad
	(C)	Three pad	(D)	Two pad
59.	While usi	ing the form tool method of ta	aper turning:	
	(A)	Carriage to be locked	(B)	Cross slide to be locked
	(C)	Top slide to be locked	(D)	Tail stock to be locked
60.		nong the following centre is high speed?	suitable when	work piece held between centres to be
	(A)	Tipped centre	(B)	Ball centre
	(C)	Revolving centre	(D)	Insert-type centre:
61.	The hand	of the thread that is being c	ut is determined	by the rotation of the:
	(A)	Main motor	(B)	Main spindle
	(C)	Feed shaft	(D)	Lead screw
62.	The taper	ratio of standard metric self	f holding taper is	
	(A)	1:20	(B)	1:25
	(C)	1:30	(D)	1:50
63.	Which on	e of the following ferrous me	tal can't be melte	ed into a liquid state?
	(A)	Steel	(B)	Wrought Iron
	(C)	Cast iron	(D)	Pig Iron
64.	The filler	metal used during brazing is	an alloy of:	
	(A)	Copper and zinc	(B)	Copper and tin
	(C)	Lead and copper	(D)	Zinc and lead
65.	Which on forging op		l properties is m	ost essential for the metals to undergo
	(A)	Elasticity	(B)	Tanacity
	(C)	Plasticity	(D)	Fusibility
66.	Which am	ong the following will have l	east coefficient o	f expansion?
	(A)	Tungsten	(B)	Cromium
	(C)	Vanadium	(D)	Nickel

67.	Which one increased?	e of the following properties increase	when	the property of hardness of metal is
	(A)	Brittleness	(B)	Toughness
	(C)	Malleability	(D)	Tanacity
68.	Which one	of the following is used for gas carbur	ising?	
	(A)	Hydrogen	(B)	Methane
	(C)	Oxygon	(D)	Accetylene
69.	Which one cutting sp	e of the following tool material is used eeds?	to ma	ake forged turning tools to work at low
	(A)	High speed steel	(B)	Tungsten carbide tool
	(C)	High carbon steel	(D)	Stellite
70.	Which one turning?	e of the following work materials need	carb	ide tools with chip breakers for rough
	(A)	Cast Iron	(B)	Bronze
	(C)	Mild steel	(D)	High tensile brass
71.	A lathe ha	olf centre is used to:		
	(A)	To turn long work piece		
	(B)	To turn taper turning		
	(C)	For general purpose		
	(D)	To face the work piece up to end of ce	ntre h	ole
72.	The width	of tool used to cut 10 mm pitch square	threa	nd is:
	(A)	10 mm	(B)	2.5 mm
	(C)	5 mm	(D)	20 mm
73.	Heat trea	tment of metal is necessary:		
	(A)	To make good appearance of compone	nt	
	(B)	To make the metal rust - proof		
	(C)	To increase strength of metal		
	(D)	To produce certain desired properties		
74.	The meas	ured size of dimension of component is	called	l:
	(A)	Basic size	(B)	Normal size
	(C)	Allowed size	(D)	Actual size

75.	A followe	r study is held on the:		
	(A)	Lathe bed	(B)	Tail stock
	(C)	Lathe carriage	(D)	Lathe spindle
76.	A taper ri	ing gauge is used for checking:		
	(A)	External taper	(B)	External thread
	(C)	Internal taper	(D)	Internal thread
77.	The numb	per of threads per inch can be cl	hecked with a	
	(A)	Screw thread micrometer	(B)	Metric steel rule by counting
	(C)	Screw pitch gauge	(D)	Centre gauge
78.	Which the	read are used in lathe lead scre	w?	
	(A)	Square thread	(B)	Buttress thread
	(C)	Acme thread	(D)	Worm thread
79.	Zero error	in micrometer means:		
	(A)	Micrometer is true		
	(B)	There is gap between the spin	dle and anvil	
	(C)	Zero mark on the thimble not	visible	
	(D)	Zero on thimble and datum lare in contact	ine on sleeve	do not coincide when measuring face
80.	The maxin	num clearance between hole 30	+0.02 )+000 and shat	-0.00 ft 30 <sup>-0.01</sup> is:
	(A)	0.03 mm	(B)	0.01 mm
	(C)	± 0.03 mm	(D)	30.02 mm:
81.	Who was t	the chief Guest of India's 65th R	epublic Day is	n 2014?
	(A)	Shinzo Abe	(B)	Yoshihiko Noda
	(C)	Naoto Kan	(D)	Toshiki Kaifu
82.	Next wint	er Olympics will be held in sout	h korea in wł	nich year:
	(A)	2018	(B)	2017
	(C)	2016	(D)	2015
83.	World Can	acer Day Observes on:		
	(A)	4th February	(B)	10th February
	(C)	28th February	(D)	19th February

84.	34. First deputy Chairman of Planning Commission in india:				
	(A)	Ashok Mehta	(B)	Gulzarilal Nan	da
	(C)	Sardar vallabai Patel	(D)	Man mohan Sir	ngh
85.	The Parli	ament of Japan is known as			
	(A)	Congress	(B)	Diet	
	(C)	Assembly	(D)	General Courts	
86.	First Pers	son to declined the Nobel Pri	ize:		
	(A)	Jean - Paul Sartre	(B)	Mo Yan	
	(C)	Marie Curie	(D)	Frederick sange	er
87.	Yogakshr	na Movement was started in	which year:		
	(A)	1908	(B)	1909	
	(C)	1919	(D)	1903	
88.	The first	country that gave women th	e right to vote in	1893:	
	(A)	England	(B)	Newzeland	
	(C)	France	(D)	Sweedan	
89.	Who was	the director of the Malayala	m movie "News p	paper Boy"?	
	(A)	I.V. Sasi	(B)	P.Ramadas	
	(C)	Priyadarsan	(D)	Kamal	
90.	Ambedka	r Jayanthi celebrates on:			
	(A)	14 <sup>th</sup> April	(B)	15 <sup>th</sup> April	
	(C)	20 <sup>th</sup> April	(D)	5 <sup>th</sup> April	
91.		UN Human Rights Council of that country:	passed a resolut	ion against an a	sian country. Find out
	(A)	Pakisthan	(B)	Russia	
	(C)	Srilanka	(D)	India	
92.	Headqua	rters of Green Peace Founds	ntion:		
	(A)	Armsterdam	(B)	Geneeva	
	(C)	Cairo	(D)	London	

93.	Sree Narayana Dharma Paripalana Yogam established in which year:				
	(A)	1903	(B)	1911	
	(C)	1928	(D)	1924	
94.	First Pres	ident of Indian Science Congress:			
	(A)	Dadabai Naoroji	(B)	J.C. Bose	
	(C)	Vikram sara bai	(D)	Sir Asutosh Mukherjee	
95.	Who was t	he first winner of Rajiv Khel Ratna Av	ward?		
	(A)	Viswanathan Anand	(B)	Sachin Tendulkar	
	(C)	Geet Sethi	(D)	Karnam Malleswari	
96.	Article 21	A of the Indian constitution refers to:			
	(A)	Right to Education	(B)	Right to freedom	
	(C)	Right against exploitation	(D)	Right to equality	
97.	The First	Chief Election commissioner of India:			
	(A)	Sukumar sen	(B)	M.S. Gill	
	(C)	Smt. Ramadevi	(D)	R.V.S. Peri Sastri	
98.	National a	nimal of Nepal:			
	(A)	Goat	(B)	Cow	
	(C)	Lion	(D)	Bear	
99.	Name the	country win the 20-20 World cup crick	et 201	4:	
	(A)	India	(B)	Pakisthan	
	(C)	Srilanka	(D)	England	
100.	New Chief	f justice of Supreme Court of India:			
	(A)	Justice K.G. Balakrishnan	(B)	Justice P. Sathasivam	
	(C)	Justice A.S. Anand	(D)	Justice Rajendra Mal Lodha	