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Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Steel rule	s are made up of:		
	(A)	Spring steel	(B)	Mild steel
	(C)	Cast iron	(D)	High carbon steel
2.	These cal	ipers are also known as Hermaphrod	lite calip	ers.
	(A)	Jenny caliper	(B)	Firm joint calipers
	(C)	Spring calipers	(D)	None of the above
3.	The angle	of prick punch is :		
	(A)	60 degree	(B)	45 degree
	(C)	30 degree	(D)	53 degree
4.	The saw u	used for manual sawing is known as	:	
	(A)	Band saw	(B)	Hack saw
	(C)	Circular saw	(D)	Jig saw
5.		od of setting saw teeth in which on next bent to the left is known as:	e tooth	remains straight, the next bent to the
	(A)	Wavy set	(B)	Regular alternate set
	(C)	Racker set	(D)	Straight set
6.	The funct	ion of the gullets provided on saw bl	ade is :	
	(A)	To act as a bearing surface	(B)	To remove the chips from the cut
	(C)	For providing cutting clearance	(D)	For perfect cooling action
7.	The size of	of bench vice is specified by :		
	(A)	Weight of vice	(B)	Length of spindle
	(C)	Width of jaws	(D)	Length of handle
8.	The narro	ow and thin part of a file which fits in	nto the h	nandle is :
	(A)	Shoulder	(B)	Heel
	(C)	Tip	(D)	Tang

9.	In single	cut file the teeth are at an angle of —	——— degree to the centre line.	
	(A)	40	(B)	70
	(C)	57	(D)	60
10.	These file	s are available only in half round sha	pes.	
	(A)	Rasp cut file	(B)	Single cut file
	(C)	Double cut file	(D)	Curved cut file
11.		is the cutting edge of a drill bit	which p	penetrate into metal while drilling.
	(A)	LIP	(B)	Shank
	(C)	Tang	(D)	None of the above
12.	Drift is us	sed for:		
	(A)	Checking squareness and flatness	(B)	To remove the drill from the sleeve
	(C)	To fit the drill into the chuck	(D)	For holding the work while reaming
13.		drill is used for producing hole	s in soft	er materials like wood and plastics.
	(A)	Straight fluted drill	(B)	Twist drill
	(C)	Core drill	(D)	Flat drill
14.		——Tap is used to size the thread.		
	(A)	First tap	(B)	Finishing tap
	(C)	Second tap	(D)	Bottoming tap
15.	The hami	ner's head is made up of :		
	(A)	Cast iron	(B)	Zinc passivated mild steel
	(C)	Plain carbon steel	(D)	Drop forged carbon steel
16.	The point	angle of a general purpose standard	drill is :	
	(A)	118 degree	(B)	119 degree
	(C)	90 degree	(D)	145 degree
17.	Vernier c	alipers is used to measure an accurac	y of :	
	(A)	0.02 mm	(B)	0.3 mm
	(C)	0.05 mm	(D)	1.0 mm

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18.	For all ranges of micrometers the graduations marked on the barrel is:					
	(A)	(0-25) mm	(B)	(0-50) mm		
	(C)	(0-100) mm	(D)	(0-20) mm		
19.		Iron is almost pure iron.				
	(A)	Cast iron	(B)	Pig iron		
	(C)	Malleable iron	(D)	Wrought iron		
20.	Metals wl	nich have little or no iron are call	led:			
	(A)	Non - corrossive metals	(B)	Non metals		
	(C)	Alloys	(D)	Non - ferrous metals		
21.	Toughnes	s is the property of a metal :				
	(A)	Ability to withstand shock				
	(B)	Ability to resist the effect of cor	npression			
	(C)	Ability to withstand scratching				
	(D)	By virtue of which it melts whe	n heated			
22.	When me	tal can be drawn out in tension w	vithout rupt	ure it is said to be :		
	(A)	Brittle	(B)	Fusible		
	(C)	Strong	(D)	Ductile		
23.		ionship existing between the man is called:	iting surface	es of the parts because of difference in		
	(A)	Limit	(B)	Fit		
*	(C)	Tolerance	(D)	Clearance		
24.	Negative	clearance is called :				
	(A)	Inter changeability	(B)	Interference		
	(C)	Fundamental deviation	(D)	Allowance		
25.	For drillin	ng abrasive materials ————	—— drills a	are used.		
	(A)	High speed drills	(B)	Tungsten carbide drills		
	(C)	Carbon steel drills	(D)	None of the above		

26.	. Most commonly used drills in metric series ranges from :				
	(A)	(1 mm – 12 mm)	(B)	(3 mm - 20 mm)	
	(C)	(0.35 mm - 25 mm)	(D)	(1 mm - 24 mm)	
27.	The opera	ation of producing large hole by spec	ially desi	gned tool is known as :	
	(A)	Spot facing	(B)	Counter boring	
	(C)	Trepanning	(D)	Reaming	
28.	Periphera	al speed of a drill surface which is in	contact v	with the work is:	
	(A)	Feed	(B)	Velocity	
	(C)	Cutting speed	(D)	Relative motion	
29.	Bessemer	process is used for producing :			
	(A)	Cast iron	(B)	Aluminium	
	(C)	Steel	(D)	Pig iron	
30.	Basically	steel is an alloy of:			
	(A)	Nickel and Chromium	(B)	Iron and Carbon	
	(C)	Iron and Cobalt	(D)	Cast iron and Nickel	
31.	High carl	on steel containing more than 0.9%	carbon a	re known as :	
	(A)	Mild steel	(B)	Tool steel	
	(C)	Dead mild steel	(D)	Structural steel	
32.		if the tool moves perpendicular to t is known as :	he axis o	f rotation of the work to produce a flat	
	(A)	Taper turning	(B)	Plain turning	
	(C)	Boring	(D)	Facing	
33.	The best	material for a lathe bed is :			
	(A)	Tool steel	(B)	Wrought iron	
	(C)	Plain carbon steel	(D)	Alloy cast iron	
34.	The part the carria		motion (of the lead screw into linear motion of	
	(A)	Head stock	(B)	Feed rod	
	(C)	Chuck	(D)	Apron	

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35.	The accessory used in a lathe to prevent the deflection of work piece under the action of cutting tool is:					
	(A)	Rest	(B)	Collet chuck		
	(C)	Tail stock	(D)	Bar feeding mechanism		
36.	The funct	ion of a mandrel in a lathe is :				
	(A)	For holding irregular work	(B)	Taper turning		
	(C)	Holding hollow work	(D)	For holding special tool		
37.	The proce	ss of indentation of various forms	on a cylind	lrical work surface is :		
	(A)	Shoulder turning	(B)	Parting off		
	(C)	Knurling	(D)	Milling		
38.	The tail s) mm per 25	50 mm for a work piece having 250 mm		
	(A)	3 mm	(B)	5 mm		
	(C)	10 mm	(D)	2.5 mm		
39.	The gear	ratio for cutting threads of 2.5 mm	pitch on a la	the with a lead screw of 6 mm pitch is:		
	(A)	60/20	(B)	25/60		
	(C)	2.5/60	(D)	60/2.5		
40.	Crank and slotted link mechanism is provided with:					
	(A)	Milling machine	(B)	Lathe		
	(C)	Shaper	(D)	Planer		
41.		ess of dividing the periphery of diding head is known as :	work piece	into any number of equal divisions by		
	(A)	Straddle milling	(B)	Slab milling		
	(C)	Indexing	(D)	Profile milling		
42.	The chip is:	space between the back of one too	oth and the	face of the next tooth of a milling cutter		
	(A)	Land	(B)	Face		
	(C)	Fillet	(D)	Gash		

43.	The term ——— applied to a grinding wheel refers to the tenacity or hardness with					
	which the	bond holds the abrasive grains in pla	ce.			
	(A)	Grit	(B)	Grade		
	(C)	Structure	(D)	Mush number		
44.	For flat pe	osition welding the recommended flux	coatin	g is:		
	(A)	Cellulose	(B)	Rutile		
	(C)	Iron oxide	(D)	Basic coatings .		
45.	For tool g	rinding the recommended grit number	r for th	e grinding wheel is :		
	(A)	(12 – 30)	(B)	(30 – 80)		
	(C)	(14 – 80)	(D)	(20 – 56)		
46.	The techn	ique of machining utilizing the therm	o-elect	ric source of energy is adopted in :		
	(A)	EDM	(B)	USM		
	(C)	CHM	(D)	TIG		
47.	In a gear	tooth the radial distance from the pite	h circle	e to the outside diameter is known as:		
	(A)	Adendum	(B)	Adendum circle		
	(C)	Tooth thickness	(D)	Clearance		
48.	Fixture is	a:				
	(A)	Work holding device	(B)	Tool holding device		
	(C)	Locating device	(D)	Work holding and tool guiding device		
49.	3-2-1 prin	ciple is applied for :				
	(A)	Positioning the fixture	(B)	Locating the component		
	(C)	Clamping the component	(D)	Selection of grinding wheels		
50.	Box jig con	ntaining bushing on two or more sides	is call	ed:		
	(A)	Latch jig	(B)	Channel jig		
	(C)	Indexing jig	(D)	Tumble jig		

51. The die in which the cutting operation is combined with forming operation is:				h forming operation is:
	(A)	Progressive die	(B)	Compound die
	(C)	Blanking die	(D)	Combination die
52.	The opera	ation in which the punch is mad	de to size and t	the clearance is provided on the die is:
	(A)	Blanking	(B)	Piercing
	(C)	Lancing	(D)	Embossing
53.	The cutting	ng operation in which hole is p	artly cut and b	ending down the cut portion is:
	(A)	Cutting off	(B)	Parting
	(C)	Lancing	(D)	Notching
54.		nical process of remelting, in a multiple of that of the origin		of a new compound whose molecular known as :
	(A)	Nuclear fission	(B)	Nuclear fusion
	(C)	Polymerisation	(D)	Carburising
55.	Choose th	ne thermosetting plastic from t	he following :	
	(A)	Polystrene	(B)	Synthetic rubber
	(C)	Urea formal dehyde	(D)	Vinyl acrylic
56.	The basic	method of moulding thermo p	lastics is :	
	· (A)	Compression moulding	(B)	Injection moulding
	(C)	Transfer moulding	(D)	Sand moulding
57.	The fema	le portion of the mould which a	gives the moule	ding its external shape is :
	(A)	Core	(B)	Cavity
	(C)	Runner	(D)	Sprue
58.	The part	of the mould through which th	e molten mate	rial is injected into the impression is:
	(A)	Register ring	(B)	Sprue bush
	(C)	Core	(D)	Core plate
59.	When a c	ore is machined from a block o	f steel or cast i	n one piece, it is termed as:
	(A)	Insert core	(B)	Integer core
	(C)	Bolster core	(D)	Direct core

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60.	For the e	jection of thin- walled box - ty	pe mouldings -	ejector pins are used :	
	(A)	Stepped ejector pin	(B)	D-shaped ejector pin	
	(C)	Z-shaped ejector pin	(D)	None of the above	
61.	For eject	ion of circular bosses on a mo	ulding the ideal	ejection method is:	
	(A)	Pin ejection	(B)	Sleeve ejection	
	(C)	Bar ejection	(D)	Air ejection	
62.	The prin	ciple of withdrawing the spr incorporated in :	ue puller throu	agh a plate, in order to eject the feed	
	(A)	Z-type	(B)	M-type	
	(C)	Mushroom headed	(D)	Reverse taper cold slug well type	
63.	The type warpage	of gate used for large thin free products:	- walled comp	ponents to assist in the production of	
	(A)	Ring gate	(B)	Pin gate	
	(C)	Film gate	(D)	Diaphram gate	
64.	The moul	ding method used to produce	hollow objects l	ike bottles in thermo plastics is :	
	(A)	Slush moulding	(B)	Transfer moulding	
	(C)	Flow moulding	(D)	Investment casting	
65.	The syste	m in which any number can b	e expressed bas	sed upon powers of 2 is :	
	(A)	Denary system	(B)	Secondary	
	(C)	Binary	(D)	Decimal	
66.	"The intensity of pressure at any point in a fluid at rest is the same in all directions". This statement is known as :				
	(A)	Newton's law	(B)	Charle's law	
	(C)	Bernoulli's law	(D)	Pascal's law	
67.	Poppet va	lve is a :			
	(A)	Direction control valve	(B)	Flow control valve	
	(C)	A valve used in toys	(D)	Pressure control valve	
68.		—— valves are basically ele	ctromagnets.		
	(A)	Globe valves	(B)	Rotary valves	
	(C)	Sluice valves	(D)	Solenoid valves	
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69. The study of the behavior and application of compressed air is known as:				ed air is known as :
	(A)	Dynamics	(B)	Aero dynamics
	(C)	Hydraulics	(D)	Pneumatics
70.	The syste Signal is		nal is constantly	y compared with the feed back position
	(A)	Open loop system	(B)	Indirect control system
	(C)	Transmission system	(D)	Closed loop system
71.	In progra	mming the code m 06 represe	ents:	
	(A)	Start spindle rotation		
	(B)	To indicate end of tape		
	(C)	Rewind stop cod		
	(D)	Command to execute the ch	nange of tool	
72.	The scien	ce which deals with the beha	vior of liquids a	t rest is:
	(A)	Hydro kinetics	(B)	Hydrodynamics
	(C)	Hydro kinematics	(D)	Hydrostatics
73.	Choose th	ne spark erosion technique fr	om the following	
	(A)	EDM	(B)	AJM
	(C)	CHM	, (D)	USM
74.	Choose th	ne duplicating device from the	e following :	
	(A)	Pantograph	(B)	Jig saw
	(C)	Hydraulic intensifier	(D)	Indexing head
75.	In a power as:	er press the connecting rod to	transmit motio	n from the main drive to slide is known
	(A)	Pitman	(B)	Stripper
	(C)	Punch	(D)	Guide post
76.		is used in progressive	die to bring the	stock strip into the correct position for
	the succe	eding operation.		
	(A)	Pilot	(B)	Knockout
	(C)	Crank	(D)	Guidepost
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77.	Annealin	g is done :		
	(A)	For relieving stress		
	(B)	To harden the surface		
	(C)	For surface smoothness		
	(D)	For improving microstructure for	r good surf	face finish
78.	Slip bush	es are used in :		
	(A)	Drill jig	(B)	Milling fixture
	(C)	Grinding fixture	(D)	Welding fixture
79.	The space	e between the punch and die openi	ng is:	
	(A)	Clearance	(B)	Allowance
	(C)	Deviation	(D)	Interferance
80.	The phen	omenon of spring back is associate	d with:	
	(A)	Bending	(B)	Milling
	(C)	Taper turning	(D)	Trimming
81.	The basic	objective of the 12th five year plan	is:	
	(A)	To achieve faster growth	(B)	To attain more inclusive growth
	(C)	To achieve sustainable growth	(D)	All of the above
82.	Which is	the largest union territory of India	?	
	(A)	Andaman & Nicobar	(B)	Daman & Diu
	(C)	Lakshadweep	(D)	Pondicherry
83.	In which	year the river Ganga was declared	as the nat	ional river of India?
	(A)	2007	(B)	2009
	(C)	2008	(D)	2010
84.	The schen	ne started by the Govt in 1999-20 of themselves and not under the N	00 to prov	ide food to senior citizens who cannot d age Pension Scheme.
	(A)	National Food Mission	(B)	Annapurna
	(C)	AFDS	(D)	Anna Amrutham
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85. Who is the author of the book 'Poverty and Un-British Rule in India'?					
	(A)	V.D. Savarkar	(B)	Amarthya Sen	
	(C)	Dadabhai Naoroji	(D)	Surendranath Banarjee	
86.	Who was	the first General Secretary of	AITUC?		
	(A)	Lokmanya Tilak	(B)	Lala Lajpath Rai	
	(C)	C.R. Das	(D)	Dewan Chaman Lal	
87.	the East	the following acts is known as India Company, and transferratish crown?			
	(A)	Indian Council's Act of 1882	(B)	Govt of India Act of 1858	3
	(C)	Regulatory Act of 1773	(D)	Pitts India Act of 1784	
88.	Which re	gion of Ukraine joined with Ru	assia in March	2014?	
	(A)	Crimea	(B)	Latvia	
	(C)	Lithuania	(D)	Estonia	
89.		the following team won the R ricket season?	anji trophy, Ira	ani Cup and Vijay Hazare	trophy in the
	(A)	Mumbai	(B)	Karnataka	
	(C)	Services	(D)	Hyderabad	
90.	Winners	of Santosh trophy 2014 is:			
	(A)	Manipur	(B)	Maharashtra	
	(C)	Mizoram	(D)	Railways	
91.		a Slave' which won Oscar for o which country?	the best film	in 2014 is directed by Ste	ve Mc Queen,
	(A)	USA	(B)	France	
	(C)	South Africa	(D)	Britain	
92.	Which is	the largest wild life sanctuary	in Kerala?		
+	(A)	Periyar	(B)	Wayanad	
	(C)	Parambikulam	(D)	Neyyar	
93.		the first scheduled caste per Assembly)?	rson become th	e member of Sreemoolam	Praja Sabha
	(A)	Pandit K.P. Karupan	(B)	P.K. Chathan Master	
	(C)	K.P. Madhavan	(D)	Ayyan Kali	
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94.	Arrange the following events in the correct chronological order.					
	(1)	Vaikkom sathyagraha				
	(2)	Consecration of Lord Siva at A	ruvippuram			
	(3)	Formation of PRDS				
	(4)	Temple entry proclamation				
	(A)	1,2,3,4 (B) 3,2,1,4	(C)	2,3,1,4	(D) 4,3,2,1	
95.		hunger march from Kannur to ment, poverty and agricultural			e various probl	ems such as
	(A)	A.K. Gopalan	(B)	E.M.S.Na	amboothiripad	
	(C)	P. Krishna Pillai	(D)	K. Kelapı	pan	
96.	Who wrot of Kerala	e the book 'Jaathi Vyavasthitiur ?	n Kerala Ch	arithravum	'('Caste System	and History
	(A)	E.M.S. Namboodirippad				
	(B)	P.K. Balakrishnan				
	(C)	N. Krishna Pillai				
	(D)	Swadeshabhimani Ramakrish	na Pillai			
97.		e of the following Articles consider Constitution?	ered by Dr. 1	B.R. Ambed	lkar as 'the hear	t and soul of
	(A)	Article 19 (fundamental freedo	ms)			
	(B)	Article 32 (constitutional reme	dies)			
	(C)	Article 14 (equality before law	& equal prot	ection of la	ws)	
	(D)	Article 21 (protection of life an	d personal li	berty)		
98.	Which am	ong the following district in Ker	ala is know	as the "tre	easure house" of	Spices?
	(A)	Idukki	(B)	Wayanad		
	(C)	Pathanamthitta	(D)	Palakkad		
99.	Which one the existin	e of the following chess tournaming FIDE world chess champion?	ents is consi	dered as a	qualification to	contest with
	(A)	Chess Olympiad	(B)	Linares C	hess Tourname	nt
	(C)	Queenstown Chess Classic	(D)	Candidate	es Tournament	
100.	Who told,	"Untouchability is a crime again	nst god and i	nankind"?		
	(A)	Dr. Ambedkar	(B)	Jyotiba Pl	hule	
	(C)	Mahatma Gandhi	(D)	and the same of th	vekanandan	
			3 7			
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