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Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Which ty blacksmit		d measur	ing patterns and hot jobs handled by
	(A)	Narrow rule	(B)	Shrink rule
	(C)	Hook rule	(D)	Short rule
2.	Which of	the following is not the part of a cor	mbination	set?
	(A)	Stock	(B)	Protractor head
*	(C)	Square head	(D)	Centre head
3.		t the linear motion of the plunger of thich one of the following mechanism		est indicator to the rotary motion of the l:
	(A)	Quick return mechanism	(B)	Rack and pinion mechanism
	(C)	Screw thread mechanism	(D)	Hydralic mechanism
4.	To get lea	st count 5 minute in a vernier beve	l protracte	or, the 23° main scale are divided into:
	(A)	12 equal parts on vernier scale	(B)	22 equal parts on vernier scale
	(C)	24 equal parts on vernier scale	(D)	25 equal parts on vernier scale
5.	The angle	which is less than 90° is called as:		
	(A)	obtuse angle	(B)	acute angle
	(C)	right angle	(D)	none of the above
6.	Which on	e of the following instrument is use	d for chec	king large internal diameters?
	(A)	Small hole gauge	(B)	Telescopic gauge
	(C)	Plug gauge	(D)	Snap gauge
7.	As per Inc	dian standard a special set of slip g	auge is us	ed consisting of:
	(A)	81 pieces	(B)	130 pieces
	(C)	120 pieces	(D)	112 pieces
8.	Which one	e of the following is used to rectify d	lamaged o	or rusted threads?
	(A)	Die nut	(B)	Circular split die
	(C)	Two-piece die	(D)	Die plate

9.	The ratio	The ratio between the difference in diameters of taper and its length is known as:					
	(A)	Concentricity	(B)	Conicity			
	(C)	Convexity	(D)	Concavity			
10.	Buttress	threads are most commonly used for:					
	(A)	Transmission of motion					
	(B)	Special bolts and units in structural	work				
	(C)	Positioning of mechanical parts					
	(D)	Resisting force exerted in one directi	on onl	y			
11.	A split pin	is used for locking purpose in :					
	(A)	Castle nut	(B)	Square nut			
	(C)	Check nut	(D)	Flanged nut			
12.	While thr	eading on lathe, the carriage is moved	by me	eans of:			
	(A)	Feed rod	(B)	Hand wheel			
	(C)	Lead screw	(D)	Gear train on a rack			
13.	Which one	of the following belt fasteners is used	for h	eavy duty machines?			
	(A)	Wire type	(B)	Lagrelle type			
	(C)	Jackson type	(D)	Alligator type			
14.	The file ca	ard is used:	7				
	(A)	to clean the file teeth	(B)	to avoid file slip			
	(C)	to clean the job	(D)	to renew the teeth of files			
15.	Draw filin	g is done :					
	(A)	to remove a file mark	(B)	before using a smooth file			
	(C) ·	for better finishing	(D)	to file high spots			
16.	The bench	vice spindle has:					
	(A)	V-Threads	(B)	Acme threads			
	(C)	Square threads	(D)	Knuckle threads			
17.	What is th	e pitch of the screw of the spindle of th	ne exte	ernal micrometer?			
	(A)	0.01 mm	(B)	0.1 mm			
	(C)	0.5 mm	(D)	0.05 mm			

18. Which of these instrument is used to check the concentricity of the outsi				tricity of the outside diameter?	
	(A)	Vernier caliper	(B)	Micrometer	
	(C)	Dial gauge	(D)	Radius gauge	
19.	The least	count of the metric vernier calipe	r is :		
	(A)	0.02 mm	(B)	0.01 mm	
	(C)	0.002 mm	(D)	0.001 mm	
20.	To conver	t inches into millimeters:			
	(A)	multiply by 25.4	(B)	divide by 25.4	
	(C)	multiply by 2.54	(D)	add 25.4	
21.	Trammel	is used for:			
	(A)	marking parallel lines	(B)	marking very small circles	
	(C)	marking long radi and circles	(D)	none of these	
22.	Which an	gle is not to be changed while dril	grinding?		
	(A)	To rake	(B)	Lip clearance	
	(C)	Point angle	(D)	Helix angle	
23.	Percentag	ge of carbon in pig-iron :			
	(A)	0.9 to 1.7%	(B)	3 to 5%	
	(C)	0.05 to 1.7%	(D)	1.7 to 2.1%	
24.	The instr	ument used to measure higher ten	nperature i	n furnaces :	
	(A)	Thremometer .	(B)	Barometer	
	(C)	Calorimeter	(D)	Pyrometer	
25.	The depth	n of a 1S 'V' Thread should be :			
	(A)	0.61 P	(B)	0.64 P	
	(C)	0.6 P	(D)	0.62 P	
26.	B.S.F thre	eads are used for :			
	(A)	aero parts	(B)	ordinary nut bolt	
	(C)	lathe screw	(D)	electrical goods	

27.	Thicknes	s of a hexagonal nut is :		· (1984年) 古代和古代 (1987年) [1]	
	(A)	equal to the core diameter of the bolt			
	(B)	equal to the nominal diameter of the	bolt		
	(C)	equal to three forth diameter of the b	olt		
	(D)	equal to twice the diameter of the bol	t		
28.	The shap	e of woodruf key is :			
	(A)	rectangular without a taper			
	(B)	square with taper			
	(C)	round with taper			
	(D)	half round on its profile, with an ever	n widt	h and thickness	
29.	An examp	ble of an antifriction bearing is:			
	(A)	a footstep bearing	(B)	a split bearing	
	. (C)	a roller bearing	(D)	a plummer block	
30.	A union is	s used in a pipe line :			
	(A)	to seperate the connection without dis	sturb	ing the unit	
	(B)	to make a line branch at right angles			
	(C)	to provide another channel			
	(D)	to stop the flow of a liquid in the line			
31.		e fitted on micrometer to ensure unifo meter while measuring :	rm pr	essure between the measuring	faces of
	(A)	Anvil	(B)	Thimble	
	(C)	Locking device	(D)	Ratchet stop	
32.	The proce	ss mild steel coated with zinc is called			
	(A)	Zinking	(B)	Tinning	
	(C)	Galvanizing .	(D)	None of these	
33.	The act of	joining the slip gauges together while	buildi	ing up to sized :	
	(A)	Shifting	(B)	Gaughing	
	(C)	Clamping	(D)	Wringing	
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34.	 nuts are used to protect the bolt ends, threads from damages and they also as protectors for safe working. 			hreads from damages and they also act
	(A)	Knurled-nuts	(B)	Cap-nuts
	(C)	Wing-nuts	(D)	Self locking-nuts
	(0)	Willig Have	-	
35.	- 14	is used to measure the effective	diamete	er of screw threads.
	. (A)	Screw pitch gauge	(B)	Screw thread plug gauge
	(C)	Screw thread caliper gauge	(D)	Screw thread micrometer
36.	The most	commonly used rivet for structural v	vork:	
	(A)	counter sunk head	(B)	pan head
	(C)	flat head	(D)	snap head
			to at the same of	Camillian and alian
37.	(4)	type springs are used in manuf	(B)	Helical tension spring
	(A)	Helical torsion spring Conical disc spring	(D)	Flat spring
	(C)	Comear disc spring	(1)	Flat opting
38.	Zinc is ob	tained from the ore:		
	(A)	Pyrites	(B)	Calamine
	(C)	Cassiterite	(D)	Malachite
39.	-	—— is used for holding or gripping	large dia	meter pipes.
	(A)	Pipe wrench	(B)	Chain wrench
	(C)	Strap wrench	(D)	Foot print wrench
				1
40.		is most suitable method for fine		
		Brinell hardness testing method		Shore hardness testing
	(C)	Rockwell hardness testing	(D)	Shore nardness testing
41.	The temp	perature at which the oil catches fire	and cont	inues to be in flame :
11.	(A)	Viscosity	(B)	Flash point
	(C)	Fire point	(D)	Pour point
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42.	Quick ret	turn mechanism adopted in :	* * *	
	(A)	Radial drilling machine	(B)	Milling machine
	(C)	Surface grinding machine	(D)	Shaping machine

43.	A Jocky	oulley is fitted:			
	(A) near the driver pulley on the slack side				
	(B)	(B) near the driver pulley on the driving side			
	(C)	near the driver pulley on the driving s	ide		
	(D)	none of these			
44.	The gear	used in "index-head gear mechanism" :			
	(A)	Bevel gear	(B)	Hypoid gear	
	(C)	Rack and pinion	(D)	Worm and worm gear	
45.	Grey cast	iron has:			
	. (A)	low compression strength	(B)	medium compression strength	
	(C)	high compression strength	(D)	high tensile strength	
46.	The dista	nce a drill moves into the work with eac	h re	volution of the spindle is called :	
	(A)	speed of a drill	(B)	cutting speed of a drill	
	(C)	depth of the drill	(D)	feed of a drill	
47.	Determin	ing taper angle using sine bar:			
	(A)	height of slip gauge length of sine bar			
4.	(B)	length of sine bar height of slip gauge			
	(C)	length of sine bar × height of slip gauge			
	(D)	none of these	*		
48.	The peen	of the straight peen hammer is:			
	(A)	bent towards the handle	(B)	perpendicular to the handle	
	(C)	angular to the handle	(D)	parallel to the handle	
49.	A ferrule i	s fixed in the handle of a file :			
	(A)	for fancy			
	(B)	to grip the file			
	(C)	to prevent the wooden handle from dan	age		
	(D)	for the safety of the file			
	Contract of				

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50.	D. The type of chisel used for cutting grooves and key ways :			
	(A)	flat chisel	(B)	cross cut chisel
	(C)	round nose chisel	(D)	diamond point chisel
51.	The term	zero error in the micrometer means :		
	(A)	it is a true micrometer		
	(B)	the zero mark is not visible		
	(C)	the zero do not exactly coincide		
	(D)	there is a negligible gap between the	micro	meter spindle and the anvil
52.	To relieve	the internal stresses, hardened tools	are ger	nerally:
	(A)	cooled suddenly	(B)	tempered
	(C)	annealed	(D)	normalized
53.	The lead	of a screw thread can be calculated by	the for	mula:
	(A)	2 × pitch	(B)	Depth × no. of starts
•	(C)	Pitch × no. of starts	(D)	Pitch \times depth of thread
54.	A fast pul	ley is that which :		
	(A)	runs rapidly	(B)	runs independently
	(C)	has 'V' shaped grooves	(D)	is fastened to the shaft
55.	An oxy-ac	etylene flame where oxygen has highe	r volur	ne than acetylene is known as:
	(A)	Carburizing flame	(B)	Neutral flame
	(C)	Oxidizing flame	(D)	Gas cutting flame
56.	Soft meta	l particles that clogged in the pores of	grindi	ng wheel is called :
	(A)	glazing	(B)	loading
	· · (C)	dressing	(D)	truing
57.	One micro	on is equal to :		
	(A)	0.1 mm	(B)	0.01 mm
	(C)	0.001 mm	(D)	0.0001 mm
58.	Fullers ar	e used for :		
	(A)	necking and grooving	(B)	forming the heads of rivet, bolts etc
	(C)	making shoulders with right angles	(D)	drawing down

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59.	Parallel l	blocks are used for :		
	(A)	marking parallel lines along an angle	(B)	levelling machine tools
	(C)	cutting parallel keyways	(D)	
60.	The differ	rence between the maximum limit of size	ze and	d the minimum limit of size is called :
	(A)	Upper deviation	(B)	Basic size
	(C)	Tolerance	(D)	Actual size
61.	A chemic	al compound of carbon with iron is calle	d:	
	(A)	ferrite	(B)	pearlite
	(C)	cementite	(D)	austenite
62.	The proce	ess of heating and cooling for changing	ng th	e structure of steel for obtaining the
	(A)	hardening	(B)	heat treatment
	(C)	normalising	(D)	tempering
63.	The neces	sity of tack welding in a joint is to:		
	(A)	join two pieces of plates	(B)	join two pieces of pipes
	(C)	control distortion during welding	(D)	eleminate spatters
64.	The drivin	ng plates are used for :		
	(A)	mounting fixtures with work pieces	(B)	rotating shafts between centres
	(C)	facing operations only	(D)	for internal operation only
65.	If you turn	the face of an irregularly shaped work	piece	e, mount the piece :
		in a mandrel		between centres
	(C)	on the face plate	(D)	in a three jaw chuck
66.	metal-to-n	is used for closing the edges of the	ie pla	ites and heads of the rivets to form a
	(A)	Caulking tool	(B)	Dolly
	(C)	Fullering tool	(D)	Soft hammer
67.	prevent da	is used to support head of the range to the shape of the rivet head.	ivet	which is already formed and also to
	(A)	anvil	(B)	stakes
	(C)	dolly	(D)	caulking tool

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68.	. In standard marking of a grinding wheel '51 - A46H5V8'. Letter 'H' represents :			
	(A)	Structure	(B)	Type of bond
	(C)	Grain size	(D)	Grade
69.	To check a	and set the spark plug gaps and	tappet clear:	ance in an engine :
	(A)	feelar gauge	(B)	snap gauge
**	(C)	plug gauge	(D)	inside caliper
70.	The depth	of the tooth space of a gear belo	ow the pitch	circle is called :
	(A)	addendum	(B)	dedendum
	(C)	centre distance	(D)	crest
71.	Which am	ong the following joints is suita	ble for roofin	g work?
	(A)	lap joint	(B)	butt joint
	. (C)	hinged joint	(D)	double grooved seam joint
72.	Interchan	geability is normally applied for	.:	**
	(A)	repairing of parts	(B)	mass production
	·(C)	single piece production	(D)	all the above
73.	In the BIS	S system of limits and fits, 25 ho	le deviations	are specified by using :
	(A)	small letters	(B)	small letters with numbers
	(C)	small letters with tolerance	(D)	capital letters
74.	Which one	of the following abrasives is us	sed for honing	g non-ferrous metals?
	(A)	Aluminium oxide	(B)	Silicon carbide
	(C)	Diamond	(D)	Boron carbide
75.	The gener	al ratio of soluble oil and water	used as coola	ant is:
	(A)	10:1	(B)	1:10
	(C)	1:20	(D)	20:1
76.	While ma	chining cast iron, the coolant us	ed should be	
	(A)	dry air	(B)	kerosene
	(C)	soluble oil	(Ď)	soft water

77.	Which or	ne of the following reason th	at water is not p	referred as coolant on machine tools?
	(A)	It decreases cutting actio	n of the tool	
	(B)	Danger of corrosion		
	(C)	It has insufficient cooling	effect	
	(D)	Due to high cooling effect	the cutting edge	s of tool break off
78.	Which on	ne of the following is used to	guide the tool ar	nd hold the job in mass production?
	(A)	gauge	(B)	
	(C)	jig	(D)	fixture
79.	Main allo	ying element in H.S.S. is:		
1	(A)	Tungsten	(B)	Chromium
	(C)	Vanadium	(D)	Nickel
80.	'Cyanidin	g' and 'Nitriding' are two m	ethods of :	
	(A)	Hardening	(B)	Case hardening
	(C)	Tempering	(D)	Normalising
81.	The large	st shipyard in India is :		
	(A)	Vishakapatana	(B)	Mumbai -
	(C)	Cochin	(D)	Kolkata
00	mb b b			
82.		quarters of Kerala Forest Re	esearch Institute	is situated at :
	(A)	Silent valley	(B)	Peechi
	(C)	Thiruvananthapuram	(D)	Wynad
83.	First Heal	th Minister of Kerala State	was:	
	(A)	Dr. A.R.Menon	(B)	Dr. K.B.Menon
	(C)	V.P.Menon	(D)	Joseph Mundasseri
84.	The Metro	Railway system was first in	troduced in Indi	a at :
	(A)	Hyderabad	(B)	Mumbai
	(C)	New Delhi	(D)	Kolkata
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85.	The year - U.N.O.			
	(A)	2009	(B)	2010
	(C)	2011	(D)	2012
86.	In which s	tate is the Rajiv Gandhi National In	nstitute o	
	(A)	Kerala	(B)	Karnataka
	(C)	Tamil Nadu	(D)	Madhya Pradesh
87.		e of the following Articles of the Dir of International Peace and Security		rinciples of State Policy deals with the
	(A)	41	(B)	48
	(C)	50	(D)	51
88.	From whi	ch one of the following did Kosovo d	eclare its	independence?
	(A)	Hungary	(B)	Macedonia
	· (C)	Serbia	(D)	Portugal
89.	The branc	h of science which deals with the st	udy of ce	lls:
00.	(A)	Cytology	(B)	Ecology
	(C)	Anatomy	(D)	Dermatology
00	(III)	of the body that is affected by tuber	mlosis ·	
90.	The second	Throat	(B)	Lungs
	(A) (C)	Heart	(D)	Skin
	(0)	Heart		
91.	Ezhava n	nemorial was prepared by the leader		
	(A)	Dr. Palpu	(B)	A.K. Gopalan
	(C)	K. Kelappan	(D)	M.N. Roy
92.	The Natio	onal Game of India is :		
	(A)	Cricket	(B)	Football
	(C)	Hockey	(D)	Baseball
93.	Ozone is	a form of:		
00.	. (A)	Hydrogen	(B)	Oxygen
4	(C)	Nitrogen	(D)	Carbon

94.	How man	y members are nominated to the	House of Pe	cople by the President of India?
	(A)	twelve	(B)	fifteen
	(C)	one	(D)	two ,
95.	'India wir	ns freedom' was written by :		
	(A)	Larri Collins	(B)	Nehru .
	(C)	Abul Kalam Azad	(D)	Dr.A.P.J.Abdul Kalam
96.	The First	five year plan in India was drafte	ed under the	e guidance of:
	(A)	K.N. Raj	(B)	P.C. Mahalanobis
	(C)	Dr. M.S. Swaminathan	(D)	Fasal Ali
97.	Former P	rime Minister Rajiv Gandhi was a	assassinate	d in the year:
	(A)	1984	(B)	1987
	(C)	1989	(D)	1991
98.	First Won	nan Vice Admiral of Indian Navy	is:	
	(A)	Anitha Roy	(B)	Punita Arora
	(C)	Sunitha Rao	(D)	Manita Singh
99.	2.3	ent Ministry of India Launche of this campaign was:	d a campa	ign 'Haathi Mera Saathi'. The main
	(A)	Conservation and welfare prosp	ects of Elep	hants
	(B)	Protection of environment		
	(C)	Protection of forest		
	(D)	Prevention of soil erosion		
100.	Indian Sp	ace Research Organisation is situ	ated at :	
	(A)	New Delhi	(B)	Bangalore
	(C)	Thiruvananthapuram	(D)	Chennai