164/2014

		Maximum :	100 mark	S
				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 con	nbination	set?
	(A)	Stock	(B)	Protractor head
*	(C)	Square head	(D)	Centre head
3.		t the linear motion of the plunger o		est indicator to the rotary motion of the
	(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 bevel	protract	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 used	l 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 ga	uge is us	ed consisting of:
	(A)	81 pieces	(B)	130 pieces
	(C)	120 pieces	(D)	112 pieces
8.	Which on	e of the following is used to rectify d	amaged (or rusted threads?
٥.	(A)	Die nut	(B)	Circular split die
	- (0)	Marca di sa di	(D)	Di alat

9.	The ratio between the difference in diameters of taper and its length is known as:				
	(A)	Concentricity	(B)	Conicity	
	(C)	Convexity	(D)	Concavity	
10	Double				
10.		threads are most commonly used for:			
	(A)	Transmission of motion			
	(B)	Special bolts and units in structural	work		
	(C) (D)	Positioning of mechanical parts	1		
	(D)	Resisting force exerted in one directi	on on		
11.	A split pin	n is used for locking purpose in :			
The same	(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	
19	Which and	of the fallowing bulk for			
13.		e of the following belt fasteners is used			
	(A)	Wire type	(B)	Lagrelle type	
	(C)	Jackson type	(D)	Alligator type	
14.	The file ca	ard is used:			
	(A)	to clean the file teeth	(B)	to avoid file slip	
	(C)	to clean the job	(D)	to renew the teeth of files	
			. 100 1105		
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.		vice spindle has:	ALEXO:		
	(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 t	he ext	ernal micrometer?	
	(A)	0.01 mm	(B)	0.1 mm	
	(C)	0.5 mm	(D)	0.05 mm	
164/	2014				
T (3.4)	MOT'T	4	1 7 10		

18.	Which of	these instrument is used to check	k the conc	en	tricity of the outside diameter?
	(A)	Vernier caliper	· (B	3)	Micrometer
	(C)	Dial gauge	(I)))	Radius gauge
19.	The least	count of the metric vernier calip	er is:		
	(A)	0.02 mm	(B	3)	0.01 mm
	(C)	0.002 mm	(D))	0.001 mm
20.		t inches into millimeters:			
	(A)	multiply by 25.4	(B	-	divide by 25.4
	(C)	multiply by 2.54	(D))	add 25.4
01	m 1	:16			
21.		is used for:	(II)	v	
- ,	(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 dri	ll grinding	07	
	(A)	To rake	(B		Lip clearance
	(C)	Point angle	(II)		Helix angle
			1.		
23.	Percentag	ge of carbon in pig-iron :			
	(A)		· (B	()	3 to 5%
	(C)	0.05 to 1.7%	(D))	1.7 to 2.1%
24.	The instr	ument used to measure higher te	mperatur	e i	n furnaces :
	(A)	Thremometer	(B	()	Barometer
	(C)	Calorimeter	(D))	Pyrometer
25.		of a 1S 'V' Thread should be:			
	(A)	0.61 P	(B		0.64 P
	(C)	0.6 P	(D	1)	0.62 P
0.0	D C T II	1			
26.		eads are used for :		-	
	(A)	aero parts	(B		ordinary nut bolt
	(C)	lathe screw	(D	")	electrical goods
A			5		164/2014
*			1		[P.T.O.]

27.	Thickness	s of a hexagonal nut is :		
	(A)	equal to the core diameter of the bolt		
	(B)	equal to the nominal diameter of the l	bolt	
	(C)	equal to three forth diameter of the bo	olt	
	(D)	equal to twice the diameter of the bolt		
28.	The shape	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 even	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
00				
30.		s used in a pipe line :		
	(A)	to seperate the connection without dis	turbi	ng 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.	The dorin	fitted on wilmometer to assure weifer		
31.		meter while measuring:	m pr	essure between the measuring faces of
		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 b	ouildi	ng up to sized :
	(A)	Shifting	(B)	Gaughing
	(C)	Clamping	(D)	Wringing
164/	2014	6		
10-21	-011			A

34.	4 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
35.	-	is used to measure the effecti	ve diamet	
	- (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 structura	l work :	
	(A)	counter sunk head	(B)	pan head
	(C)	flat head	(D)	snap head
37.			ufacture o	f writing pad clips.
	(A)	Helical torsion spring	(B)	Helical tension spring
	(C)	Conical disc spring	(D)	Flat spring
1				
38.	Zinc is ob	tained from the ore :		
	(A)	Pyrites	(B)	Calamine
	(C)	Cassiterite	(D)	Malachite
39.		is used for holding or grippin	g large dia	imeter pipes.
	(A)	Pipe wrench	(B)	Chain wrench
	(C)	Strap wrench	(D)	Foot print wrench
40.		is most suitable method for f	inding har	dness of soft metal.
	- (A)	Brinell hardness testing method	(B)	Vicker hardness
	(C)	Rockwell hardness testing	(D)	Shore hardness testing
41.	The town	erature at which the oil catches fir	e and cont	tinues to be in flame:
+1.	(A)	Viscosity	(B)	Flash point
	(C)	Fire point	(D)	Pour point
	100	The point	(2)	
42.	Quick ret	urn mechanism adopted in :	* * *	
	(A)	Radial drilling machine	(B)	Milling machine
	(C)	Surface grinding machine	(D)	Shaping machine
A			7	164/2014
44				

164/2014 [P.T.O.]

43.	A Jocky p	oulley is fitted:		
	(A)	near the driver pulley on the slad	ck side	
	(B)	near the driver pulley on the driv	ving side	
	(C)	near the driver pulley on the driv	ving side	
	(D)	none of these		
44.		used in "index-head gear mechanis	sm":	
	(A)	Bevel gear	(B)	Hypoid gear
	(C)	Rack and pinion	(D)	Worm and worm gear
45.	Grev cast	iron has:		
10.	(A)	low compression strength	(D)	
	(C)	high compression strength	(B)	medium compression strength
	(0)	mgn compression strength	(D)	high tensile strength
46.	The distar	nce a drill moves into the work wit	h each rev	olution of the spindle is called
	(A)	speed of a drill		cutting speed of a drill
	(C)	depth of the drill	(D)	feed of a drill
			in Y	
47.	Determini	ing taper angle using sine bar:	N. A.	
	(A)	height of slip gauge		
		length of sine bar		
	(B)	length of sine bar		
	(0)	height of slip gauge		
	(C)	length of sine bar × height of slip	gauge	
	(D)	none of these		
48.	The neen o	of the straight peen hammer is:		
	(A)	bent towards the handle	(B)	nomen display 5, ab. 1, 11
	(C)	angular to the handle	(D)	perpendicular to the handle parallel to the handle
			(D)	paramer to the handle
49.	A ferrule is	s fixed in the handle of a file:		
	(A)	for fancy		
	(B)	to grip the file		
	(C)	to prevent the wooden handle from	n damage	
	(D)	for the safety of the file		
164/2	014			

50.	The type	of chisel used for cutting grooves and l	key wa	ys:
	(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	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 × depth of thread
54.		ley is that which:		
	(A)	Charles and Charle	(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 volun	ne than acetylene is known as:
	(A)	Carburizing flame	(B)	Neutral flame
	(C)	Oxidizing flame	(D)	Gas cutting flame
56.		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
- 25-25				
58.		e used for:		
	(A)	necking and grooving	(B)	forming the heads of rivet, bolts etc
	(C)	making shoulders with right angles	(D)	drawing down
A		9		164/2014

59.	Parallel b	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	e an	d the minimum limit of size is called:
	(A)	Upper deviation	(B)	Basic size
	(C)	Tolerance	(D)	Actual size
61.	A chemica	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	ne 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	g 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	niec	e mount the piece
		in a mandrel	(B)	between centres
	(C)	on the face plate		in a three jaw chuck
66.	metal-to-m	is used for closing the edges of the	ie pla	ates 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 r mage to the shape of the rivet head.	ivet	which is already formed and also to
			(B)	stakes
	(C)	dolly	(D)	caulking tool
164/9	2014	10		

68.	In standa	rd marking of a grinding wheel	'51 – A46H5	V8'. Letter 'H' represents :
	(A)	Structure	(B)	Type of bond
	(C)	Grain size	(D)	Grade
	m 1 1			
69.		and set the spark plug gaps and		
¥2	(A)	feelar gauge	(B)	snap gauge
	(C)	plug gauge	(D)	inside caliper
70.	The depth	of the tooth space of a gear bel	ow the pitch	circle is called :
	(A)	addendum	(B)	dedendum
	(C)	centre distance	(D)	crest
	(0)			
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	r:	
	(A)	repairing of parts	(B)	mass production
	·(C)	single piece production	(D)	all the above
73.		S system of limits and fits, 25 ho		
	(A)	small letters	(B)	small letters with numbers
	(C)	small letters with tolerance	(D)	capital letters
74	Which on	of the following abrasives is us	sed for honin	o non-ferrous metals?
1.2.	(A)	Aluminium oxide	(B)	Silicon carbide
	(C)	Diamond	(D)	Boron carbide
	100	Diamond	(2)	
75.	The gener	ral ratio of soluble oil and water	used as cool	ant is:
	(A)	10:1	(B)	1:10
	(C)	1:20	(D)	20:1
76.	While ma	chining cast iron, the coolant us	sed should be	
	(A)	dry air	(B)	kerosene
	(C)	soluble oil	(D)	soft water
A			11	164/2014
	-			[P.T.O.]

-				
77.	Which o	ne of the following reason	that water is not p	referred as coolant on machine tools?
	(A)		ion of the tool	
	(B)			
	(C)			
	(D)	Due to high cooling effe	ct the cutting edge	s of tool break off
78.	Which or	ne of the following is used	to guide the tool ar	nd hold the job in mass production?
	(A)		(B)	housing housing
	(C)	jig	(D)	fixture
			(1)	nature
79.	Main all	oying element in H.S.S. is		
11	(A)	Tungsten	(B)	Chromium
	(C)	Vanadium	(D)	Nickel
80.	'Cyanidir	ng' and 'Nitriding' are two	methods of :	
	(A)	Hardening	(B)	Case hardening
	(C)	Tempering	(D)	Normalising
81.	The large	st shippard in India is :		
	(A)	Vishakapatana	(B)	Mumbai ·
	(C)	Cochin	(D)	Kolkata
60			(D)	Noikata
82.	The head	quarters of Kerala Forest	Research Institute	is situated at :
		Silent valley	(B)	Peechi
	(C)	Thiruvananthapuram	(D)	Wynad
83.	First Hea	lth Minister of Kerala Stat	e was:	
	(A)	Dr. A.R.Menon	(B)	Dr. K.B.Menon
	(C)	.V.P.Menon	(D)	Joseph Mundasseri
34.	The Metro	Railway eyetom was C.	introduced: 1 to	
	(A)	Railway system was first Hyderabad		
	(C)	New Delhi	(B)	Mumbai
	311	THOW DOING	(D)	Kolkata
64/2	2014		12	A

85.	The year U.N.O.	<u> </u>	nas been declare	ed as the in	ternational year of	cooperatives by the
	(A)	2009		(B)	2010	
	(C)	2011		(D)	2012	
86.	In which s	state is the Rajiv	Gandhi Nation	nal Institute	of Youth Developme	ent located?
	(A)	Kerala		(B)	Karnataka	
	(C)	Tamil Nadu		(D)	Madhya Pradesh	
87.			g Articles of the		Principles of State I	Policy deals with the
	(A)	41		(B)	48	
	(C)	50		(D)	51	
	A					
88.	From whi	ch one of the fol	lowing did Koso	vo declare it	s independence?	
	(A)	Hungary	4 10	(B)	Macedonia	
	· (C)	Serbia		(D)	Portugal	
89.	The branc	ch of science wh	ich deals with th			
	(A)	Cytology		(B)		
	(C)	Anatomy		(D)	Dermatology	
90.	The part	of the body that	is affected by tu	iberculosis :		
50.	(A)	Throat	and distribution of	(B)	40	
	(C)	Heart		(D)		
	(0)	Title 1				
91.	Ezhava n	emorial was pr	epared by the le	ader:		
	(A)	Dr. Palpu		(B)	A.K. Gopalan	
	(C)	K. Kelappan		(D)	M.N. Roy	
92.	The Nati	onal Game of In	dia is:			
	(A)	Cricket		(B)		
	(C)	Hockey		(D)) Baseball	
93.	Ozone is	a form of:				4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	. (A)	Hydrogen		(B		
41.	(C)	Nitrogen		(D) Carbon	
A			- 14	13		164/2014 [P.T.O.]

94.	. How many members are nominated to the House of People 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	s drafted under th	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 Gandl	ni was assassinate	d in the year:	
	(A)	1984	(B)	1987	
	(C)	1989	(D)	1991	
98.	First Won	nan Vice Admiral of Indian	Navy is		
00.	(A)	Anitha Roy		Punita Arora	
	(C)	Sunitha Rao	(B)		
	(0)	Summa tao	(D)	Manita Singh	
99.		ent Ministry of India La of this campaign was:	nunched a campa	ign 'Haathi Mera Saathi'. The main	
	(A)	Conservation and welfare	prospects of Elep	hants	
	(B)	Protection of environmen	t		
	(C)	Protection of forest			
13	(D)	Prevention of soil erosion			
100.	Indian Sp	ace Research Organisation	is situated at :		
	(A)	New Delhi	(B)	Bangalore	
	(C)	Thiruvananthapuram	(D)	Chennai	
			71 - W		

164/2014

14