Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Which of	the following compass is used to	draw very la	rge circle?
	(A)	Large compass	(B)	Beam compass
	(C)	Drop compass	(D)	Bow compass
2.	The trim	med size of A3 drawing sheet is:		
	(A)	297 × 420 mm	(B)	210 × 297 mm
	(C)	148 × 210 mm	(D)	420 × 594 mm
3.	An angle	which is less than 90° is called :		
	(A)	Obtuse angle	(B)	Acute angle
	(C)	Reflex angle	(D)	Straight
4.	A triangle	e has two of its sides equal:		
	(A)	Scalene triangle	(B)	Equilateral triangle
	(C)	Isosceles triangle	(D)	Right angled triangle
5.	It an obje	ct lies in third quadrant, its posit	ion with res	pect to reference plane will be:
	(A)	In front of VP above HP	(B)	In front of VP below HP
	(C)	Behind VP above HP	(D)	Behind VP below HP
6.		e objects is cut by a section, plane ew of the object is obtained in :	e parallel to	HP and perpendicular to VP. Then the
	(A)	Right side view	(B)	Left side view
	(C)	Plan	(D)	Elevation
7.	Which ty	pe of drawing shows the front of	the object in	true position?
	(A)	Oblique projection	(B)	Perspective projection
	(C)	Isometric projection	(D)	None of these

8.	The distance a screw thread advances axially for one complete revolution is called:			
	(A)	Pitch	(B)	Root
	(C)	Module	(D)	Lead
9.	Which on	e of the following thr	eads, is used on mechan	ical screw jack?
	(A)	'V' threads	(B)	Acme threads
	(C)	Square threads	(D)	Buttress threads
10.	'Rag bolt'	is a type of:		
	(A)	Welding bolt	(B)	Foundation bolt
	(C)	Heavy duty bolt	(D)	Locking bolt
11.	The semi	circular key is used fo	or transmitting light tor	que:
	(A)	Feather key	(B)	Gib head key
	(C)	Saddle key	(D)	Woodruff key
12.	The propo	ortion of a nut thickn	ess with respect to bolt	diameter (D) is:
	(A)	0.5 D	(B)	0.8 D
	(C)	D	(D)	1.73 D
13.	The rivet	usually used for boile	er plate riveting:	
	(A)	Pan head	(B)	Snap head
	(C)	Conical head	(D)	Countersunk head
14.	The vice u	used for forging work	is:	
	(A)	Forging vice	(B)	Leg vice
	(C)	Toolmaker's vice	(D)	Bench vice
15.	The box n	ut of a bench vice is	made of:	
	(A)	Phosphorus bronze	(B)	Aluminium
	(C)	Alloy steel	(D)	Lead
16.	Rasp cut i	file is used for filing :		
	(A)	Mild steel	(B)	Cast iron
	(C)	Nickel Steel	(D)	Wood

17.	The malle	t is made of :		
	(A)	Mild steel	(B)	Cast iron
	(C)	Nickel steel	(D)	Wood
18.	Which of	the following chisel is used for cut	ting keywa	ys?
	(A)	Crosscut chisel	(B)	Diamond point chisel
	(C)	Flat chisel	(D)	Round nose chisel
19.	The least	count of metric Vernier height ga	uge is:	
	(A)	0.01 mm	(B)	0.02 mm
	(C)	0.1 mm	(D)	0.5 mm
20.	The lathe	bed is made of:		
	(A)	Mild steel	(B)	High carbon steel
	(C)	Cast iron	(D)	Alloy steel
21.	The size o	f the sine bar is specified by:		
	(A)	Overall length	(B)	Length and weight
	(C)	Distance between rollers	(D)	Roller's diameter
22.	The least	count of Vernier bevel protractor	is:	
	(A)	1 minutes	(B)	5 minutes
	(C)	12 minutes	(D)	30 minutes
23.	In a shape	er:		
	(A)	Work reciprocates and tool stati	onary	
	(B)	Work reciprocates and tool move	es over ther	n
1	(C)	Work stationary and tool recipro	ocates	
	(D)	Work stationary and tool moves	over them	
24.	Clapper b	ox is used in :		
	(A)	Shaper	(B)	Radial drilling machine
	(C)	Centre less grinding machine	(D)	Slotter

25.	The irreg	ular shaped work pieces are c	lamped on a la	the by using:	
	(A)	Face plate	(B)	Four jaw chuck	
	(C)	Mandrill	(D)	Lathe dog	
26.	The file g	rades are determined by the :			
	(A)	Distance from tip to heel	(B)	Spacing of the teeth	
	(C)	Cut of file	(D)	Shape of file	
27.	Name the	operation of cutting a sheet o	of metal in a str	aight line along the length:	
	(A)	Lancing	(B)	Embossing	
	(C)	Slitting	(D)	Perforating	
28.	The cutting	ng tool in a milling machine is	mounted on:		
	(A)	Chuck	(B)	Arbor	
	(C)	Spindle	(D)	Tool post	
29.	The opera	ation of cutting a piece out of s	stock material t	o a predetermined contour term	ied as :
	(A)	Drawing .	(B)	Piercing	
	(C)	Punching	(D)	Blanking	
30.	Which an	nong the following stake provi	des double end	ed support?	
21.	(A)	Horse stake	(B)	Funnel stake	
	(C)	Creasing stake	(D)	Half moon stake	
31.	The point	angle of a centre punch is:			
	(A)	30°	(B)	60°	
	(C)	45°	(D)	90°	
32.	Bend snip	s are used for :			
	(A)	Support round articles			
	(B)	Making round holes			
	(C)	Cutting metal sheet along a	curved lines		
	(D)	None			
33.	In acetyle	ne cylinder, the acetylene is d	lissolved in :		
	(A)	Carbon dioxide	(B)	Water	
	(C)	Oxygen	(D)	Acetone	
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34.	In Foundr	y, which sand is used for making	ng cores:		
	(A)	Oil sand	(B)	Green sand	
	(C)	Loam sand	(D)	Parting sand	
35.	Which too	ol is used for repairing and n?	finishing the	mould surface af	ter the pattern is
	(A)	Lifter	(B)	Slick	
	(C)	Swab	(D)	Riddle	
36.	Which tap	er is provided in the hollow en	d of tail stock	bores in a centre la	the?
	(A)	Morse taper	(B)	Jerno taper	
	(C)	Brown and sharp taper	(D)	Metric taper	
37.	The unit	of electric conductance is:			
	(A)	Farad	(B)	Henry	
	(C)	Coulomb	(D)	Siemens	
38.	Which of	the following generator have tw	vo field windir	ng?	
	(A)	Shunt wound generator	. (B)	Series wound gene	erator
	(C)	Compound wound generator	(D)	Parallel wound ge	nerator
39.	The air-fo	uel ratio of the petrol engine is	controlled by		
	(A)	Injector	(B)	Governor	
	(C)	Carburetor	(D)	Fuel pump	
40.		the following devices used to con of the engine turning momen		ed variation of the e	engine caused by the
	(A)	Crank shaft	(B)	Cam shaft	
	(C)	Governor	(D)	Fly wheel	
41.	The loud	pulsating noise heard within t	he cylinder of	an IC engine is kno	wn as:
	(A)	Scavenging	(B)	Detonation	
	(C)	Injecting	(D)	Super charging	
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42.	The ratio	of break power to the indicated po	wer or an i	to engme.
	(A)	Indicated thermal efficiency	(B)	Relative efficiency
	(C)	Break thermal efficiency	(D)	Mechanical efficiency
43.	An intent fit is calle		dimension	s and shaft dimensions for any type of
	(A)	Allowance	(B)	Tolerance
	(C)	Deviation	(D)	Fit
44.	The irregion is called:	ularities in the surface texture du	e to the in	herent action of the production process
	(A)	Waviness	(B)	Lay
	(C)	Roughness	(D)	Flaws
45.		the following coupling can used for same alignment?	or connecti	ing two shafts, whose axis are parallel
	(A)	Oldham coupling	(B)	Muff coupling
	(C)	Flange coupling	(D)	Sleeve coupling
46.	For design		diameter o	f the shaft in mm, then diameter of the
	(A)	d + 17 mm	(B)	2d + 13 mm
	(C)	2d + 20 mm	(D)	3.5 <i>d</i> mm
47.	The portion	on of the shaft carried in the plane	bearing is	often referred as:
	(A)	Hub	(B)	Races
	(C)	Case	(D)	Journal
48.	The antifi	riction bearing's rolling elements a	re usually	made of:
	(A)	Chrome steel	(B)	High speed steel
	(C)	High carbon steel	(D)	Silicon steel
49.	RAM of a	computer means:		
	(A)	Random Access Memory	(B)	Real Access Memory
	(C)	Rapid Action Memory	(D)	Rapid Access Memory
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50.	Expand C	Co:		
	(A)	Universal Curser Sign	(B)	Universal Co-ordinate System
	(C)	Universal Card Setting	(D)	Universal Card Site
51.	Polar co-o	ordinate system is mostly used in Au	toCAD fo	or drawing:
	(A)	Circle	(B)	Ellipse
	(C)	Arc	(D)	Angular lines
52.	In AutoC	AD, which of the following space the	e free orbi	it tool can found?
	(A)	Modify	(B)	3D move
	(C)	Rotate	(D)	Revolve
53.	PAN com	mand is used to move the drawing o	over the c	omputer screen in CAD drawing:
	(A)	Horizontally	(B)	Vertically
	(C)	In any directions	(D)	In 'Z' directions
54.	In, AutoC	CAD, the function key for ortho ON/	OFF is:	
	(A)	F6	(B)	F7
	(C)	F8	(D)	F9
55.	'Zoom out	d' during CAD drawing :		
	(A)	Roll the wheel forward	(B)	Roll the wheel backward
	(C)	Double click the wheel button	(D)	Hold down the wheel button
56.	IF you e		h comma	and used to retrieve the geometry in
	(A)	OOPS	(B)	TRIM
	(C)	ERASE	(D)	None of these
57.	Which co	mmand can used in AutoCAD to du	plicate ex	isting objects in a circular pattern?
	(A)	COPY	(B)	ARRAY
	(C)	MOVE	(D)	MIRROR
58.	In AutoC	AD, which command will give solid	objects?	
	(A)	REVOLVE	(B)	ROTATE
	(C)	EXTRUDE	(D)	EXPLOD

59.	Solder is a	n alloy of :			
	(A)	Copper and Tin	(B)	Lead and Zinc	
	(C)	Lead and Tin	(D)	Copper and Lead	
60.	The fast p	ulley is a pulley which has :			
	(A)	Runs fast	(B)	Runs independently	
	(C)	A grooved pulley	(D)	Fitted on the shaft	
61.	The actual	difference caused between the s	urface speed	d of the belt and pulley is:	
	(A)	Creep	(B)	Slip	
	(C)	Dressing	(D)	None of these	
62.	Which of th	ne following gear, the teeth are c	ut at an an	gle to the axis of rotation?	
	(A)	Spur gear	(B)	Helical gear	
	(C)	Hypoid gear	(D)	Bevel gear	
63.	The jockey	pulley or idler pulley is fitted :			
	(A)	Near the driver pulley on the ter	nsion side of	f the belt	
	(B)	Near the driven pulley on the tension side of the belt			
	(C)	Near the driver pulley on the sla	ck side of th	he belt	
	(D)	Near the driven pulley on the sla	ack side of t	he belt	
64.	The ratio of	the pitch diameter to the numb	er of teeth	of the gear is:	
	(A)	Pitch	(B)	Pitch circle	
	(C)	Root depth	(D)	Module	
65.	The size of	the gear is usually specified by :			
	(A) ]	Diametrical pitch	(B)	Pitch circle diameter	
	(C) 1	Addendum circle	(D)	Deddundum circle	
66.	Dwell perio	d of a cam is the period in which	the followe	r:	
	(A) 1	Moves fast	(B)	Moves slow	
	(C) 1	Does not move	(D)	None of these	

67.	Which form of energy is stored in a hydraulic accumulator?				
	(A)	Pressure energy	(B)	Kinetic energy	
	(C)	Potential energy	(D)	Heat energy	
68.	Which of t	the following pump is suitable f	or high head	and less discharge?	
	(A)	Centrifugal pump	(B)	Reciprocating pump	
	(C)	Came and piston pump	(D)	Plunger pump	
69.	Which of	the following jig consist of a dri	ll plate, which	rests on the component to be drilled?	
	(A)	Solid jig	(B)	Trunion jig	
	(C)	Box jig	(D)	Plate jig	
70.	Which of	the following clamp works on t	he principle of	inclined planes?	
	(A)	Cam clamp	(B)	Toggle clamp	
	(C)	Wedge clamp	(D)	Latch clamp	
71.	Which of	the following gauge is used to c	heck the gap l	between mating parts?	
	(A)	Snap gauge	(B)	Plug gauge	
	(C)	Feeler gauge	(D)	Caliper gauge	
72.	In pneum	atic system, a sensor serves th	e purpose of:		
	(A)	Feedback	(B)	Transmission	
	(C)	Control	(D)	None of these	
73.	The wash	ner is specified by its:			
	(A)	Thickness	(B)	Mean diameter	
	(C)	Outer diameter	(D)	Inner diameter	
74.	The ratio	of the ultimate stress to the w	orking stress	is:	
	(A)	Poisson's ratio	(B)	Factor of safety	
	(C)	Young's modulus	(D)	Modulus of rigidity	
75.	In which	type of drawing, vertical pipes	may be revolv	ved into the horizontal plane?	
	(A)	Plane view	(B)	Transverse view	
	(C)	Developed view	(D)	Front view	

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76.	The comr	nand for to set a new layer in Au	to CAD is:	
	(A)	DDLPTTPE	(B)	DDLPROP
	(C)	DDLLAYR	(D)	DDLMODES
77.	The profi	le of a gear tooth is in the form o	f:	
	(A)	Involutes	(B)	Helix
	(C)	Parabola	(D)	Hyperbola
78.	The threa	ds provided on standard pipe fit	tings are :	
	(A)	BA	(B)	BSW
	(C)	BSF	(D)	BSP
79.	The act of	fjoining together slip gauges is t	ermed as:	
	(A)	Bunching	(B)	Wringing
	(C)	Extending	(D)	Welding
80.	Circlips a	re made of :		
	(A)	Cast iron	(B)	Stainless steel
	(C)	Spring steel	(D)	High carbon steel
81.	Who is sel	lected as the "Best Director" in th	ne 63 <sup>rd</sup> Natio	nal Film Award?
	(A)	Sanjay Leela Bhansali	(B)	Sreejith Mukharjee
	(C)	Shivaji Lotan Patil	(D)	Hansal Mehta
82.	The leade	r who coined the slogan "Delhi C	halo"?	
	(A)	Gopala Krishna Gokhale	(B)	Sardar Vallbhai patel
150	(C)	Balagangadhara Tilak	(D)	Subhash Chandra Bose
83.	The term	Legal tender money' refers to:		
	(A)	Demand Draft	(B)	Black money
	(C)	Currency Notes	(D)	Bank Cheques
84.	Herman G	undert is associated with which	of the follow	ing Organization?
	(A)	Lundon mission Society	(B)	Basel Evangelical Mission
	(C)	Church Mission Society	(D)	The Church of South India

85.	85. The place where Gandhiji launched his first Satyagraha in India?			
	(A)	Ahamedabad	(B)	Kheda
	(C)	Champaran	(D)	Sabarmathi
86.	Who is th	e author of "Pokkuveyil Mannilezhuthi	yath"	?
	(A)	S. Joseph	(B)	ONV Kuruppu
	(C)	Girish Puthencheri	(D)	Vayalar Ramavarma
87.	'Dakshin	Gangotri' is situated in :		
	.(A)	Dhar Desert	(B)	Kanyakumary
	(C)	Bay of Bengal	(D)	Antartica
88.	Who amor	ng the following was the founder of 'Sa	matwa	a Samajam'?
	(A)	Chattampi Swamikal	(B)	Vaikunta Swamikal
	(C)	Thycaud Ayya	(D)	Ayya Vaikundar
89.	In which	city the Jawaharlal Nehru University (	JNU)	is situated?
	(A)	Delhi	(B)	Mumbai
	(C)	Kolkata	(D)	Hyderabad
90.	Who is th	e appointing authority of Chief Election	n Com	missioner of India?
	(A)	The Chief Justice of Supreme Court	(B)	The Prime Minister
	(C)	The Attorney General	(D)	The President of India
91.	Who amor	ng the following was the leader of Swar	aj Par	rty?
	(A)	C.R. Das	(B)	Balagangadhara Tilak
	(C)	Subhash Chandra Bose	(D)	Jawaharlal Nehru
92.	Identify t	he winner of Njanapeedam Award in 2	015 :	
	(A)	Ashapoorna Devi	(B)	Thara Sankar Bandhopadhyay
	(C)	Reghuveer Chaudhari	(D)	Bhalchandra Nemade

93.	33. Who among the following is connected with 'Anandadarsanam'?			arsanam'?
	(A)	Brahmananda Sivayogi	(B)	Vagbhadandan
	(C)	Kumaranassan	(D)	V.T. Bhattathiripad
94.	Who amo	ong the following presided ove	r the Surat Sess	sion of INC in 1907?
	(A)	Gopalakrishna Gokhale	(B)	Dadabhai Naoroji
	(C)	Ras Bihari Ghosh	(D)	Sarojini Naidu
95.	In which Committe		, you can found	a connection with justice MR Lodl
	(A)	FIFA	(B)	IPTL
	(C)	PKL	(D)	BCCI
96.	Which of	the following date is closely co	onnected with th	ne Ezhava Memorial?
	(A)	1891 Jan 1	(B)	1876 Sep 3
	(C)	1876 Jan 1	(D)	1896 Sep 3
97.	The Kera	la Minerals and Metals is situ	ated at which o	f the following place?
	(A)	Kannur	(B)	Chavara
	(C)	Kovalam	(D)	Cherai
98.	Find out	the leader who is connected w	ith the place 'Pa	nmana'?
	(A)	Ayyankali	(B)	Pandit Karuppan
	(C)	Chattampi Swamikal	(D)	Vagbhadananda
99.	In which	state the Bokaro Steel Plant i	s situated?	
	(A)	Madhya Pradesh	(B)	Jharkhand
	(C)	Uttarpradesh	(D)	Uttarakhand
100.	"We can I	can" was the theme of which	of the following	event?
	(A)	World cancer day 2016	(B)	World Wild Life Day 2016
	(C)	World AIDS day 2015	(D)	World Human Rights Day 2015