43/2015

Maximum: 100 marks

Time: 1 hour and 15 minutes

	225			
1.		of a point moving in a plane in constant is called:	such a way t	hat the sum of its distance from 2 fixed
	(A)	Ellipse	(B)	Parabola
	(C)	Hyperbola	(D)	Cycloid
	(0)	and become	(-)	
2.	1 cubic m	eter is equal to :		
	(A)	10000 Litres	(B)	1000 Litres
	(C)	100 Litres	(D)	None of the above
3.	1 billion is	s:		
	(A)	103	(B)	10 ⁶
	(C)	109	(D)	1012
4.	Hardenab	ility indicates that:		
	(A)	Uniform hardness throughout	the section	
	(B)	It can be easily hardened		
	(C)	Slow cooling is sufficient		
	(D)	The hardness is more		
5.	Die castir	g is a process :		
	(A)	Which uses permanent mould	s to which mo	olten metal is poured
	(B)	Molten metal is poured into a	revolving mo	uld
	(C)	Molten metal is poured into sa	and mould	
	(D)	All the above		
6.	Seamless	tubes are manufactured by:		
	(A)	Spinning	(B)	Piercing
	(C)	Casting	(D)	Rolling
7.	Cold shut	is a defect found in :		
	(A)	Turning	(B)	Grinding
	(C)	Forging	(D)	Extrusion

8. The heat treatment for improving machinability is:				
	(A)	Spherodising	(B)	Tempering
	(C)	Normalizing	(D)	Hardening
9.	Which one	e of the following is a three dimens	ional figur	re?:
	(A)	Trapezium	(B)	Rhombus
	(C)	Cycloid	(D)	Cone
10. If the radii of two spheres are in the ratio 1:2 their volume will be in the rat				
	(A)	1:2	(B)	1:4
	(C)	1:8	(D)	1:16
11.	The lengt	h of diagonal of a square is 10cm. t	hen its are	ea is:
	(A)	100 sq. cm	(B)	10 sq. cm
	(C)	50 sq. cm	(D)	None of the above
12.	Which of	the following is a unit for measurer	ment of an	gle?
	(A)	Degree	(B)	Minute
	(C)	Second	(D)	All the above
13.	The value	of cos60 is:		
	(A)	0.5	(B)	1
	(C)	0	(D)	$\sqrt{2}$
14.	High spee	d steel is used to make :		
	(A)	engine parts of an automobile	(B)	aircraft engine
	(C)	wheel of automobile	(D)	cutting tool
15.	In normal	izing cooling is done in :		
	(A)	Water	(B)	Oil
	(C)	Furnace	(D)	Air

16.	Brass is a	n alloy of :		
	(A)	Copper and Zinc	(B)	Copper and Tin
	(C)	Nickel and Copper	(D)	None of the above
	un da de	t bdi boot trootmont	,	
17.		post hardening heat treatment?		Casa Handaning
		Tempering	(B)	Case Hardening
	(C)	Annealing	(D)	Normalizing
18.	Stainless	steel is an alloy of :		
	(A)	Iron, Nickel and Chromium	(B)	Tungsten and Chromium
	(C)	Vanadium and Molybdenum	(D)	None of the above
19.	Cutting sp	peed is selected by considering:		
	(A)	Condition of the machine		
	(B)	Cutting tool Material		
	(C)	Surface finish required		
	(D)	All the above		
90	The melti	ng point of pure iron is:		
20.			(D)	723° C
	(A)	1535° C	(B)	
	(C)	910° C	(D)	1130° C
21.	Eutectoid	steel contains:		
	(A)	Pearlite and Cementite	(B)	Pearlite
	(C)	Austenite	(D)	None of the above
22.	The thick	ness of a thin steel sheet can be		
	(A)	Steel Rule	(B)	Micrometer
	(C)	Outside Caliper	(D)	Measuring Machine

23.	On a me divided i	etric Vernier Caliper 1 main scale nto 25 divisions on the vernier. Its	division i least coun	is 0.5 mm. 24 main scale divisions at
	(A)	0.05 mm	(B)	0.02 mm
	(C)	0.005 mm	(D)	0.01 mm
24.	On a plai	ning machine :		
	(A)	The cutting tool reciprocates	(B)	The work piece reciprocates
	(C)	Tool or work reciprocates	(D)	All the above
25.	Usually c	eutting fluid is not used for machin	ing grey ca	ast Iron because :
	(A)	It is a very soft metal	(B)	Presence of free graphite
	(C)	Presence of Cementite	(D)	To reduce cost
26.	Guide wa	ys of Lathe beds are hardened by :		
	(A)	Pack carburizing	(B)	Cyaniding
	(C)	Flame hardening	(D)	None of the above
27.	In heat tr	eatment quenching is done:		
	(A)	To reduce hardness	(B)	To remove internal stresses
	(C)	To Increase hardness	(D)	To refine grain
28.	In a single	start thread lead is equal to :		
	(A)	Pitch	(B)	Half the pitch
	(C)	Double the pitch	(D)	None of the above
29.	The numb	er of teeth on a driving gear and d ing gear is 100 then rpm of driven	riven gear gear is:	are 30 and 60 respectively. If the rpm
	(A)	200	(B)	30 × 60
	(C)	50	(D)	30 + 60

30.	The furna	ce used in a medium foundry is:		
	(A)	Blast furnace	(B)	Open hearth furnace
	(C)	Besemer Converter	(D)	Cupola
31.	Which ma	chining process is more accurate?		
	(A)	Turning	(B)	Milling
	(C)	Grinding	(D)	Shaping
32.	In arc wel	ding the transformer is used to:		
	(A)	Increase voltage	(B)	Reduce voltage
	(C)	Increase or reduce voltage	(D)	None of the above
33.	In gas cut	ting the flame used is:		
	(A)	LPG	(B)	Natural Gas
	(C)	Oxyacetylene	(D)	CNG
34.	Duralumi	n is an alloy of :		
	(A)	Aluminium & Tin		
	(B)	Aluminium, Copper, Manganese & M	lagnes	sium
	(C)	Aluminium & Nickel		
	· (D)	Aluminium & Chromium		
35.	Mangane	se is considered as a useful impurity in	n steel	because:
	(A)	It counteracts the harmful effects of	sulphu	ır
	(B)	Reduce oxygen content		
	(C)	Improve tensile strength		
	(D)	All the above		
36.	A steel is	said to be cold worked when:		
	(A)	Worked in cold condition		
	(B)	Worked below melting point		
	(C)	Worked below recrystallization temp	eratu	re
	(D)	Worked below room temperature		
37.	Cutting f	luid used for steel is :		
	(A)	Soluble oil	(B)	Sulphurised oil
	(C)	Mineral oil	(D)	All the above

38.	The circu	llar scale of a micro meter is on the :		
	(A)	Barrel	(B)	Ratchet
	(C)	Thimble	(D)	Above fiducial line
39.	Mass of a	material of specific gravity 7.6 and vol-	ume	1 cubic meter is :
	· (A)	76 kg	(B)	760 kg
	(C)	7600 kg	(D)	None of the above
40.	1 micron	is equal to :		
	(A)	10 ⁻¹ mm	(B)	10 ⁻² mm
	(C)	10 ⁻³ mm	(D)	10 ⁻³ meter
41.	Vernier C	Caliper is used to measure :		
	(A)	Internal dimension		
	(B)	External dimension		
	(C)	Both external and internal dimension		
	(D)	None of the above		
42.	Accuracy	of measuring instrument is related to:		
	(A)	Correctness of measurement		
	(B)	Repeatability		
	(C)	Both correctness and repeatability		
	(D)	Correctness or repeatability		
13.	The intere	national standard unit for measuremen	of li	near dimension is :
	(A)	Micron	(B)	Meter
	(C)	Foot	(D)	Centimeter
14.	The mater	rials used for surface plate are :		
	(A)	Granite or Cast iron	(B)	Only Granite
	(C)	Only Cast iron	(D)	None of the above
5.	The telesc	opic gauge is used to measure :		
	(A)	Internal Dimension	(B)	External dimension
	(C)	Dimension of distant objects	(D)	All the above
16.	Sensitivity	y of a measuring instrument is:		
	(A)	Ability to detect small difference in me	asur	ed quantity
	(B)	Readability of dimension		
	(C)	Repeatability		
	(D)	Correctness of measurements		

47.	To check the correctness of profile of a thread, we use:				
	(A)	Bench Micrometer	(B)	Screw pitch gauge	
	(C)	Profile projector	(D)	Angle bar	
48.	Which on	e of the following is not an angle me	asuring o	levice?	
	(A)	Bevel protractor	(B)	Combination square	
	(C)	Sine bar	(D)	Angle iron	
49.	A univers	al surface gauge is used for :			
	(A)	Checking flatness	(B)	Checking straightness	
	(C)	Checking angle	(D)	Layout work and inspection	
50.	Part of a	measuring device carrying the scale	is called		
	(A)	Housing	(B)	Frame	
	(C)	Index	(D)	Dial	
51.	The speci	fication of a sign bar is :			
	(A)	Its total length	(B)	Distance between centers of the roller	
	(C)	Diameter of roller	(D)	Length of roller	
52.	Tolerance	is specified :			
	(A)	To obtain desired fit	(B)	To get accuracy	
	(C)	Simplify inspection	(D)	Accommodate workman imperfection	
53.	Feeler ga	uge is used to check :			
	(A)	Radius	(B)	Surface roughness	
	(C)	Pitch of the screw	(D)	Thickness of clearance	
54.	Intention	al difference between mating parts i	s to get :		
	(A)	Accuracy	(B)	Desired fit	
	(C)	Cost reduction	(D)	None of the above	
55.	In third a	ngle projection front view is:			
	(A)	Above X-Y line	(B)	Below X-Y line	
	(C)	Above or below X-Y line	(D)	None of the above	
56.	In orthogr	raphic projection the projectors are :			
	(A)	Parallel to HP	(B)	Parallel to VP	
	(C)	Perpendicular to the plane	(D)	Inclined to the plane	

57.	The point	t (-2-3) is in the :		
	(A)	Second quadrant	(B)	Third quadrant
	(C)	First quadrant	(D)	Fourth quadrant
58.	In isomet	cric projection the three axes of	projection are	
	(A)	Parallel to one another	(B)	Mutually perpendicular
	(C)	Inclined to one another	(D)	None
59.	Isometric	view of a circle kept in the ver	tical position	will be:
	(A)	Circle	(B)	Ellipse
	(C)	Line	(D)	Any one of the above
60.	In grey ca	ast iron:		
	(A)	No carbon is present		
	(B)	Carbon is in the graphite form	n	
	(C)	Carbon is present in the Cem	entite form	
	(D)	Carbon is present as Austenia	te	
61.	Nitriding	is:		
	(A)	A softening process	(B)	Case hardening process
	(C)	Surface finishing process	(D)	Corrosion prevention process
62.	Which on	e of the following is not a part o	of the die set?	
	(A)	Guide pin	(B)	Guide bushing
	(C)	Shank	(D)	Stripper plate
63.	The funct	ion of a pilot is to :		
	(A)	Stop the strip	(B)	Register the strip
	(C)	Pierce hole	(D)	Punch hole
64.	The opera	tion by which a sheet is cut thr	ough the part	of its length and the cut part is bent is
	(A)	Slitting	(B)	Lancing
	(C)	Curling	(D)	Notching
65.	Which one	e of the following is used for pro	ducing pierce	d blanks?
	(A)	Piercing tool	(B)	Blanking tool
	(C)	Combination tool	(D)	Compound tool

66.	In blanking clearance is provided on :				
	(A)	Punch	(B)	Die	
	(C)	Die or Punch	(D)	None of the above	
67.	Which on	e is not bend element?			
	(A)	Bend angle	(B)	Bend allowance	
	(C)	Neutral plane	(D)	Bend clearance	
68.	In a blanl by :	king operation the size of the work pi	ece is S	and clearance C the punch size is given	
	(A)	S+2C	(B)	S+4C	
	(C)	S-4C	(D)	S-2C	
69.	The femal	le part of a mould which forms the ex	ternal s	hape of the moulding is called :	
	(A)	Cam	(B)	Core	
	(C)	Cavity	(D)	Sprue	
70.	Which one	e of the following is an example of the	ermopla	stic?	
	(A)	Bakelite	(B)	Polyester	
	(C)	PVC	(D)	Phenol formaldehyde	
71.	A channel	or orifice connecting the runner to the	he impre	ession is called :	
	(A)	Gate	(B)	Cavity	
	(C)	Side core	(D)	Insert	
72.	Shrinkage	e of material decreases with:			
	(A)	Increase of material temperature			
	(B)	Increase of mould temperature			
	(C)	Increase in wall thickness			
	(D)	Higher injection pressure			
73.	The term	PARISON is associated with:			
	(A)	Compression moulding	(B)	Blow moulding	
	(C)	Extrusion	(D)	Injection moulding	
74.	A thin film	n formed on the parting surface duri	ng moule	ding is called :	
	(A)	Land	(B)	Filament	
	(C)	Flash	(D)	Shot	

75.	Which is	not a die casting alloy?		
	(A)	Aluminium alloy	(B)	Copper alloy
	(C)	Zinc alloy	(D)	Manganese alloy
76.	Take the	odd man out :		
	(A)	Sprue gate	(B)	Fan gate
	(C)	Degate	(D)	Tab gate
77.	For ejecti	ng small cylindrical moulding which ej	ection	technique is more preferred :
	(A)	Sleeve ejection	(B)	Blade ejection
	(C)	Air ejection	(D)	Valve ejection
78.	Which spe	ecification of lathe is not recommended	by IS	1?
	(A)	Maximum swing over bed		
	(B)	Distance between centres		
	(C)	Maximum weight of work to be held		
	(D)	Weight of lathe		
79.	Which is	not true for a magnetic chuck?		
	(A)	Used to hold fragile work		
	(B)	Used when cutting force is less		
	(C)	Used When material removal is less		
	(D)	Used for Copper and Aluminium		
80.	A forming	tool is used for taper turning when:		
	(A)	Length of taper is less		
	(B)	Length of work is more		
	(C)	Angle of taper is less		
	(D)	Angle of taper is more		
81.	What is th	ne first National Park in India?		No. of Street,
	(A)	Corbet National Park	(B)	Indiragandhi National Park
	(C)	Bendipoor National Park	(D)	Khazhiranga National Park
82.	In which y	vear we began to celebrate Environmen	nt Day	?
	(A)	1960	(B)	1970
	(C)	1973	(D)	1983

83.	Where is the first hospital started for bird?					
	(A)	Calcutta	(B)	New Delhi		
	(C)	Bangalore	(D)	Madras		
84.	Who is kr	nown as Father of Badjet?				
	(A)	Adam Smith	(B)	Alfred Marshall		
	(C)	Amarthya Sen	(D)	James Windson		
85.	Who is th	e founder of Twitter?	*			
	(A)	Saradore	(B)	Billgrate		
	(C)	Cemmone	(D)	Jack Dorcy		
86.	In which	year Nobel Prize (Commemora	tive Prize) intr	roduced for Economics?		
	(A)	1968	(B)	1950		
	(C)	1978	(D)	1975		
87.	In which	year first smart phone introdu	ced?			
	(A)	1980	(B)	1994		
	(C)	1990	(D)	1995		
88.	Which is	first Rayon Factory in India?				
	(A)	Gwalior Rayons Gwalior	(B)	Jamshedpur Rayons		
	(C)	Mayoor Gwalior Rayons	(D)	Bombay Rayons		
89.	How man	y members elected to the Lok S	Sabha from Un	ion Territories?		
	(A)	13	(B)	20		
	(C)	18	(D)	15		
90.	Who was	the Keralate who functioned a	s opposition le	ader with Cabinet Rank?		
	(A)	A.K. Gopalan	(B)	C.M. Stephen		
	(C)	A.K. Antony	(D)	P.J. Kurian		
91.	Who was	the first Resident of Rastrabha	athi Bhavan?			
	(A)	Lord Montague	(B)	Lord Minto		
	(C)	Lord Irwin	(D)	Mount Batton		
92.	What is the	ne approximate time of zero ho	ur in Parliame	ent?		
	(A)	10.00 A.M.	(B)	11.00 A.M.		
	(C)	12 Noon	(D)	2.00 P.M.		

00.	WHO IS AS	ssociated with the work of JD1 Islam (rpnan	age koznikode:
	(A)	Panakad Shihab Thangal	(B)	C.H. Mohammed Koya
	(C)	Mohammed Abdul Rhiman Shahib	(D)	Moidu Moulavi
94.	Which is 1952, onw	the Political Party which contest in vards?	electio	on with the same election symbol for
	(A)	CPI (M)	(B)	CPI
	(C)	BJP	(D)	INC
95.	Which is	the first steemship in the world?		
	(A)	Turbinia	(B)	Taitanic
	(C)	M.V. Rayal seema	(D)	INS Kunhali
96.	In which	day we celebrate 'Mother's Day'?		
	(A)	June 18th	(B)	Oct. 24th
	(C)	June 16 th	(D)	May 10 th
97.	The chem	ical process of resting of an iron object	is kno	own as:
	(A)	Oxidation	(B)	Resting
	(C)	Ironisation	(D)	Galvanisation
98.	What is th	ne meaninig of 'Eskimo'?		and make the second of the
	(A)	Eater of Raw Meat	(B)	Eater of Raw fruits
	(C)	Eater of Dried fish	(D)	Eater of Raw fish
99.	What is 'S	amboorna'?		
	(A)	Compleat information about citizens	in onli	ine and a second se
	(B)	Compleat information about IED stu	dents i	in online
	(C)	Compleat information about State en	ploye	es in online
	(D)	Compleat information about students	in on	line
100.	Which is t	he University started by Pandit Mada	n Moh	an Malaviya?
	(A)	Allahabad University	(B)	Banaras Hindu University
	(C)	Sri Sankara University	(D)	Sree Venkideswara University