MULTIPLE CHOICE

1.	A treatment of the surface iron-based alla. epoxy paintingb. bluing	oys, usually in the front of sheet strip is: c. sanding d. coating						
	ANS: B PTS: 1	DIF: Easy						
2.	. An element assembled into a tapped hole is							
	a. keyb. nut	c. screw d. worm gear						
	ANS: C PTS: 1	DIF: Easy						
2		·						
3.	After hot working, a stress caused by red a. residual stress	c. pitting						
	b. galling	d. flaking						
	ANS: D PTS: 1	DIF: Easy						
4.	at a controlled rate is	metal at a designated temperature for a period of time and then coolin	g it					
	a. annealingb. quenching	c. tempering d. normalizing						
	ANS: C PTS: 1	DIF: Easy						
5.	In the design of mechanical members, th stress is	e separation that takes place along in the direction of the highest shear	ing					
	a. ductile fractureb. fatigue stress	c. residual stressd. torsional stress						
	ANS: A PTS: 1	DIF: Easy						
6.	It is a square key with the bottom two co	rners are beveled						
	a. Saddle keyb. Barth key	c. Woodruff keyd. Grib head key						
	ANS: B PTS: 1	DIF: Easy						
7		surface structure recovers from its unstable condition						
/.	a. Annealing	c. Aging						
	b. Normalizing	d. Tempering						
	ANS: C PTS: 1	DIF: Easy						
8.	It is the ability of the material to absorb a. yield strength	energy within its proportional limit c. toughness						
	b. resilience	d. creep strength						
	ANS: B PTS: 1	DIF: Easy						
9.	In kinematics, the occurrence of linear an	nd rotational motion simultaneously is known as						
	a. mechanismb. rotakinetics	c. corioli's d. Grashof's						
	ANS: C PTS: 1	DIF: Easy						
10.	The ratio of the number of teeth to the pi	itch diameter is						
10.	a. circular pitch	c. diametral pitch						
	b. mechanical advantage	d. Lewi's form factor						
	ANS: C PTS: 1	DIF: Easy						
11.	A new hacksaw blade should not be used in old cut because a. the blade is very costly c. the space is not sufficient to play the new							
		blade in the old cut						
	b. the blade have very sharp teeth	d. none of the above						
	ANS: C PTS: 1	DIF: Easy						

		Tang Body			c. d.	Heel Point
	ANS	: A	PTS:	1	DIF:	Easy
13.	a.	se of a flat scraper, changing the conve changing the inclin	exity of		erified b c. d.	
	ANS	: B	PTS:	1	DIF:	Easy
14.	a.	hich screw thread tl Knuckle Square	he side =	= width of the fla	t = widt c d .	h of the space = 0.5p Buttress ACME
	ANS	: В	PTS:	1	DIF:	Easy
15.	a.	' stainless steel mea 18 % Tungsten and 18 % Nickel and 8	d 8 % C		c. d.	18 % Chromium and 8 % Nickel 18 % Chromium and 8 % Cobalt
	ANS	: C	PTS:	1	DIF:	Easy
16.	a.	ch is the lightest me Lead Aluminum	etal?	1	c. d. DIF:	GI Sheet Cast iron
17				•	<i>D</i> 11 .	Lusy
17.	a.	lened steel parts have Fine grains Medium grains	ve		c. d.	Coarse grains None of the above
	ANS	: A	PTS:	1	DIF:	Easy
18.	a.	centricity of an outs Vernier caliper Dial test indicator	side diar	meter can be chec	cked by c. d.	Outside micrometer Tube micrometer
	ANS	: В	PTS:	1	DIF:	Easy
19.	a.	ch micrometer has a outside micrometer screw thread micro	r	?	c. d.	depth micrometer digit micrometer
	ANS	: C	PTS:	1	DIF:	Easy
20.		ch micrometer is av		with extension ro	ods?	inside micrometer
	b.	screw thread micro	ometer		d.	combi micrometer
	ANS	: C	PTS:	1	DIF:	Easy
21.		ch gauge is used to plug gauge	check th	ne internal thread	ls? c.	ring gauge
		thread plug gauge			d.	thread ring gauge
	ANS	: B	PTS:	1	DIF:	Easy
22.	a.	radial distance betv clearance dedendum	ween the	bottomland and	the pitcl c. d.	
	ANS	: B	PTS:	1	DIF:	Easy
23.		echanical element c	connecte	ed directly in the	prime m	nover is
		axle spindle			c. d.	line shaft transmission shaft
	ANS		PTS:	1	DIF:	Easy

12. Which of the file is not hardened?

24.	A sp a. b.	our gear with infin herringbone gear helical gear		s is also known a	as c. d.	rack gear bevel gear			
	ANS	S: C	PTS:	1	DIF:	Easy			
25.	An e	engineering mater	ial which	contains a mixt	ure of pu	re iron and 1 to 3 % slag is known as			
	a.	stainless steel			c.	wrought steel			
	b.	killed steel			d.	pig iron			
	ANS	S: C	PTS:	1	DIF:	Easy			
26.	In bolt design, the maximum load a bolt can withstand is								
	a. b.	ultimate load resultant bolt loa	A		c. d.	permissible bolt load proof of load			
				1		•			
	ANS	S: D	PTS:	1	DIF:	Easy			
27.		rced shaft with a	rotating p	oulley known as					
	a. b.	Cantilever beam Axle shaft			c. d.	Line shaft Transmission shaft			
						Tansinission shart			
	ANS	S: B	PTS:	1	DIF:	Easy			
28.	The	effect of alloying		opper is					
	a.	to increase hardn		.•	c.	to hardness and strength			
	b.	to impart free-ma	achining j	properties	d.	to increase strength and ductility			
	ANS	S: D	PTS:	1	DIF:	Easy			
29.	Unli	ke materials or ma	aterials o	f different thick	ness can	be butt welded by			
	a.	control of pressu			c.	adjust initial gap			
	b.	adjusting time du	ıration of	current	d.	all of the above			
	ANS	S: A	PTS:	1	DIF:	Easy			
30.	The	purpose of inocul	ation is						
	a.	To clean the cast	ing		c.	To decrease melting temperature of a cast			
	b.	To change the ch	emical co	omposition of a	cast d.	metal To modify structure and properties of a cast metal			
	ANS	S: D	PTS:	1	DIF:	Easy			
						•			
31.	_	Spiral bevel and hypoid gears should, in general be mounted on anti-friction bearings in an/ a case a. water light c. soluble light							
	a. b.	oil light			d.	rubber light			
		S: B	PTS:	1	DIF:	Easy			
						•			
32.	The maximum theory of failure the elastic limit of a ductile ferrous material in shear is practically its elastic limit in tension								
	a.	one-half			c.	three-fourths			
	b.	three-halves			d.	four-thirds			
	ANS	S: A	PTS:	1	DIF:	Easy			
33.	Is la		strength	applications su	ch as elev	vator ropes not used to hoisting and for stationary guy			
	a.	steel rope			c.	nylon rope			
	b.	cast steel rope			d.	iron wire rope			
	ANS	S: D	PTS:	1	DIF:	Easy			
34.	In ac	ctual machines							
	a. Mechanical advantage is unity				c.	Mechanical advantage is less than velocity			
	b. Mechanical advantage is less than unity					ratio Mechanical advantage is equal to velocity ratio			
	ANS	S: C	PTS:	1	DIF:	Easy			

35.	The a.	limiting force of f The value of frict movement of the	ion force body	that stops the	c.	The friction force when the body is just about to move		
	b.	The value of frict under a given situ		that cannot exce	eed d.	The friction force acting on a body when it is in motion		
	ANS	S: C	PTS:	1	DIF:	Easy		
36.		e only force acting elled by each	on two	bodies is their m	utual int	reractions and if both bodies start from rest, the distance		
	a.	Proportional to the			c.	Inversely proportional to the square of the masses of the bodies		
	b.	Inversely proport bodies	ional to t	he masses of the	d.	Directly proportional to the square of the masses of the bodies		
	ANS	S: B	PTS:	1	DIF:	Easy		
37.	In m	ajority of machine	member	rs the damping ca	apacity o	of the material should be		
	a.	low			c.	high		
	b.	zero			d.	could be anything		
	ANS	S: C	PTS:	1	DIF:	Easy		
38.	A behavior of metals where in strength of metal is increased and ductility is decreased on heating at a relatively low temperature after cold working is called							
	a.	twinning	danina		c. d.	clustering		
	b.	solid solution har	_			strain aging		
	ANS	S: D	PTS:	1	DIF:	Easy		
39.	It is	a machine used fo	r the test	ing of very thin s	steel or s			
	a. b.	Charpy test Description test			c. d.	Izod test Rockwell test		
		-	DEC		u.	ROCKWEII LEST		
	ANS	S: D	PTS:	1				
40.	The		ın flatter	surface on horize	ontal, ve	ertical or angular plane.		
	a. b.	drilling machine lathe machine			c. d.	power saw shaper machine		
			DTC	1		•		
	ANS	S: D	PTS:	1	DIF:	Easy		
41.			is very s	similar to a shape	-	t the ram reciprocals vertically rather that horizontally		
	a. b.	Lathe Grinder			c. d.	Planer Slotter		
			DTC	1				
	ANS	S: D	PTS:	1	DIF:	Easy		
42.		•	ging a ho	ole by means of a		table cutting tool with only one cutting edge.		
	a. b.	Boring Broaching			c. d.	Drilling Milling		
			DTC.	1		-		
	ANS	S: A	PTS:	1	DIF:	Easy		
43.						orks is at and inspect size trueness of finished work, and		
	a.	mpare measureme Dial Gage	ents eithe	er neights or dept	ns or ma	any other measurements Tachometer		
	b.	Dial Indicator			d.	Speedometer		
	ANS	S: B	PTS:	1	DIF:	Easy		
4.4	A +a	al usad far massu	ina diam	antona				
44.	a.	ol used for measur Caliper	ing dian	ieters.	c.	Tachometer		
	b.	Manometer			d.	Pyrometer		
	ANS	S: A	PTS:	1	DIF:	Easy		
45.	A pr	ocess of forming 1	netals by	the use of dies a	ıfter the	metal is forced to its plastic range.		
	a.	Casting	•		c.	Rolling		
	b.	Forging			d.	Turning		
	ANS	S: C	PTS:	1	DIF:	Easy		

46.	When using a drill presa. the hand b. a gloved hand	s, the w	ork should be he	ld with c.	a vise or clamp pliers
	ANS: C	PTS:	1	DIF:	Easy
47.	If the angle on a drill is a. the drill will make b. the drill will make	a large	hole	c.	the hole will take longer to drill and more power is required to drive the drill
	b. the drill will make ANS: C		er noie	d. DIF:	the drill will not center properly
				DIF:	Easy
48.	If a drill speed is too gra. cut faster b. lose its temper	eat, it w	vill:	c. d.	cut slower not cut
	ANS: B	PTS:	1	DIF:	Easy
49.	Chuck used on turret la a. collet chuck			c.	Magnetic Chuck
	b. four jaw self cente	_		d.	Three jaw independent chuck
	ANS: D	PTS:	1	DIF:	Easy
50.	Pipe is measured by: a. inside diameter b. outside diameter			c. d.	thickness of wall wire gage
	ANS: A	PTS:	1	DIF:	Easy
51.	Tubing is measured by a. inside diameter b. outside diameter	:		c. d.	thickness of wall wire gage
	ANS: B	PTS:	1	DIF:	Easy
52.	A product of paddling a. cast iron b. gray cast iron ANS: D	furnace PTS:		ess than c. d. DIF:	pig iron wrought iron
				DIF.	Easy
53.	A lathe machine threada. anvilb. changed stud gear		hanism is called	c. d.	reverse gear and lever spindle gear
	ANS: D	PTS:	1	DIF:	Easy
54.	a. Drawingb. Honing		iece of stock whi	c. d.	oss-sectional area is being reduced Tapping Upsetting
	ANS: A	PTS:	1	DIF:	Easy
55.	process of cutting inter a. Chamfering b. Honing	nal threa	ads by means of a	a cutting c. d.	tool Reaming Tapping
	ANS: D	PTS:	1	DIF:	Easy
56.	A tool used for turning a. C-clamps b. Long nose ANS: D	nots or		c. d.	Plier wrench
57.	Soft solder is made of				
	a. copper and zincb. tin and lead			c. d.	tin and copper tin and zinc
	ANS: B	PTS:	1	DIF:	Easy

58. Hard solder is made of: a. copper and zinc c. tin and copper b. tin and zinc d. tin and lead ANS: A PTS: 1 DIF: Easy 59. The process of checking the surface of a piece by rolling depressions into the surface c. reaming b. knurling d. snagging ANS: B

60. Removing the sharp edges from a piece of stock is referred to as

PTS: 1

a. knurling c. planning b. chamfering turning

DIF: Easy

ANS: B PTS: 1 DIF: Easy