## 158/2014

1.	The	term forging refers to:						
	(A)	Plastic deformation		(B)	Elas	stic deformatio	on	
	(C)	Stress deformation		(D)	Stra	ain reveling		
2.	A ve	ery difficult forgable ma	aterial is :					
	(A)	Maraging Steel		(B)	Bery	yllium		
	(C)	Magnesium alloy		(D)	Nicl	kel alloy		
3.	The	highly elastic material	is:					
	(A)	Rubber (B)	Brass		(C)	Glass	(D)	Steel
4.	Slow	and progressive defor	mation is c	alled :				
	(A)	Resilience (B)	Malleabili	ity	(C)	Creep	(D)	Plasticity
5.	Whe	n a material is subjecte	d to cyclic	period	lic loa	ding, the prop	erty occu	rring is :
		Creep (B)	Fatigue		(C)	Hardness	(D)	Ductility
6.	Hool	ke's Law states that :						
	(A)	Stress × Strain = Const	ant	(B)	Strai	in – Stress = Co	onstant	
	(C)	Stress Strain = Constant		(D)	Stres	ss + Strain = Co	onstant	
7.	The pand of	process of forming new deformed is called :	grain stru	cture v	with r	educed grain s	size when	a metal is heated
	(A)	Re-crystallisation		(B)	Crys	tallisation		
	(C)	Melting		(D)	Defo	rming		

0.	Hot	working tempera	nuire (	of steel is :					
	(A)	370 – 455°C	(B)	760 – 925	°C	(C)	315°C	(D)	1100 – 1260°C
9.	Leng	gth of work piece	is rec	luced by :					
	(A)	Upsetting	(B)	Fullering		(C)	Flattening	(D)	Piercing
10.	The	cooling medium	in noi	malising is	1				
	(A)	Water			(B)	Oil			
	(C)	Air			(D)	Artif	ficial Coolants		
11.	Pure	Iron melts at :							
	(A)	380°C	(B)	760°C		(C)	370°C	(D)	1539°C
12.	Mar	tensite is :							
	(A)	Ductile	(B)	Hard		(C)	Soft	(D)	Brittle
13.	Tou	ghness is the abil	ity to	absorb :				-	
	(A)	Impact	(B)	Stresses		(C)	Load	(D)	Heat
14.	Heat	t treatment is do	ne to d	change :					
	(A)	Magnetic prope	erties o	of metal	(B)	Phys	ical properties	of metal	Clear near
	(C)	Mechanical pro	pertie	s of metal	(D)	Elect	rical properties	of meta	al
15.	Whi	ch of the below i	s not	a surface ha	rdenir	ng pro	cess ?		
	(A)	Nitriding	(B)	Carburisi	ng	(C)	Cyaniding	(D)	Annealing
16.	A br	rittle material is :							
	(A)	Mild steel			(B)	Cast	iron		
	(C)	Low carbon ste	el		(D)	Plast			
158/	2014				4				

17.	Gan	nma Iron has the crystal structure	of:				
	(A)	bcc . (B) sc		(C)	hep	(D)	fcc
10	201				Name to		
18.		property by which a material absorption		nergy			
	(A)	Resilience (B) Hardness		(C)	Tensile Str	ength (D)	Toughness
19.	In fo	orging operation, work piece is usu	ally s	ubject	ed to :		
	(A)	Tensile stress	(B)	Shea	ır stress		
	(C)	Bending stress	(D)	Com	pressive str	ess	
20.	Forg	ting is a :					
	(i)	Hot working operation					
	(ii)	Cold working operation					
	(iii)	Operation that involves pressing					
		Of these statements:			April 10		
	(A)	(i) is true	(B)	(ii) a	nd (iii) are t	rue	
	(C)	(ii) is true	(D)	(i) ar	nd (iii) are tr	rue	
21.	Hot	die forging is also known as :					
	(A)	Roll forging	(B)	Emb	ossing		
	(C)	Isothermal forging	(D)	Prec	ision forging		
22.	The	body of Anvil is made of :					
	(A)	Mild steel	(B)	High	carbon stee	·l	
	(C)	High speed steel	(D)	Cast	iron		
23.	In A	nvil, hardie hole is used for :					
	(A)	Bending rods of small diameters	(B)	Hot	punching op	peration	
	(C)	Holding square shanks	(D)	Cutt	ing operatio	n	

24.	In smithy operation, for general pick up work :										
	(A)	Straight - lip flu	ted to	ng is used	(B)	Flat	tong is used				
	(C)	Gad tong is used	d		(D)	Ring	tong is used				
25.	Neck	king down of wor	k pied	e is done b	y:						
	(A)	Swages	(B)	Fullers		(C)	Flatters	(D)	Set hammer		
26.	Flux	used in forge we	lding	is:							
	(A)	Calcined Borax			(B)	Silica	1				
	(C)	Nitric Oxide			(D)	Calc	ium Carbonate				
27.	The	method of prepar	ring m	etal pieces	for for	ge we	elding is called:				
	(A)	Filling	(B)	Jumping		(C)	Reaming	(D)	Scarfing		
28.	Drop	forging comes u	nder								
	(A)	Smith die forgin	g		(B)	Impr	ession die forgin	g			
	(C)	Power forging			(D)	Hand	d forging				
29.	Forg	ing process for sh	naping	round bars	s is cal	lled :					
	(A)	Press forging	(B)	Rotary for	ging	(C)	Drop forging	(D)	Billet		
		Lorin A		San		****					
30.	Iron	with little or no o	carbon			A mo					
	(A)	Ferrite	(B)	Sorbite		(C)	Pearlite	(D)	Martensite		
31.	The	hardening respon	ise of	steel to hear	t treat	ment					
	(A)	Brinell Test	(B)	Jominy Te	st	(C)	Morse Test	(D)	Knoop Test		
32.	Whic	ch of the followin	g met	al is magne	tic ?						
The Co	(A)	Aluminium	(B)	Nickel	er Koë.	(C)	Copper	(D)	Magnesium		
	* 1		1000				* * *	1.	0		

33.	The	metal used for d	ie cast	ing is:				
	(A)	Copper	(B)	Magnesium	(C)	Zinc	(D)	Lead
34.	Meta	al with low melti	ng po	int is:				
	(A)	Lead	(B)	Tin	(C)	Zinc	(D)	All the above
35.	Galv	vanization is the	proces	s of coating :				
55.		Tin	(B)	Zinc	(C)	Nickel	(D)	Copper
36.	Age	hardening of no	n-ferro	ous metals is calle	d:			
	(A)	Case hardening	g	(B)	Nitr	iding		
	(C)	Precipitation h	ardeni	ing (D)	Surf	ace hardening		
37.	Dolo	omite is an impor	rtant o	are of :				
	(A)	Lead	(B)	Copper	(C)	Magnesium	(D)	Aluminium
38.	The	process of makir	ng blin	d holes is :				
	(A)	Piercing	(B)	Punching	(C)	Blocking	(D)	Bending
39.	The	process of hamn	nering	a heated bar into	align	ed die cavity is c	alled :	23411011
	(A)	Press forging	(B)	Drop forging	(C)	Roll forging	(D)	Rotary forging
40.	Pitti	ng of the forging	surfa	ce is caused by :				
	(A)	Slag	(B)	Over heating	(C)	Scale	(D)	Low heating
41.	The	defect occurred	in son	ne alloy steel due	to rap	id cooling from f	orging	temperature is :
	(A)	Creep	(B)	Flakes	(C)	Cracks	(D)	Dents

42.	The	defect caused by	misa	lignment bet	ween	top a	nd bottom	forgin	g dies	is called :
	(A)	Fins and rags	(B)	Die shift		(C)	Cracks		(D)	Hair cracks
43.	Sim	ple way to remov	re scal	e from a for	ged p	art is	:			
	(A)	Using steam an	d con	npressed air	(B)	Pick	ling			
	(C)	Tumbling proce	ess		(D)	Blas	t cleaning			
44.		final treatment a		rging is don						
	(A)	Remove stresse			(B)		e the forge		s cool	
	(C)	Make the forgir	ng har	d and tough	(D)	Тос	lear cracks			
45.	Elat	forging of gear b	lanka							
45.	(A)								(7)	
	(A)	Opsetting	(B)	Downsetti	ng	(C)	Hammer	ing	(D)	Squeezing
46.	Duri	ing tempering, fo	rged 1	oaris are coo	led u	sing :				
	(A)		(B)	Water		(C)	Air	degree .	(D)	Coolants
					1.19				, ,	Visit in
47.	The	mechanism used	in pre	esses for free	ing th	e woi	k piece fro	om a di	ie is ca	alled :
	(A)	Die set	(B)	Knock out		(C)	Stroke	de la constitución de la constit	(D)	Stripper
		whom is it.		Limit	121		enb5th			term and (A)
48.	The calle	process of thinn d:	ing th	e walls of a	shel	by f	orcing it t	hrough	a di	e with a punch i
	(A)	Bending	(B)	Rolling		(C)	Re-drawi	ng	(D)	Ironing
49.	Vaca	ncy is:								
	(A)	Point defect	(B)	Line defect		(C)	Surface d	efect	(D)	Volume defect
	***									
50.		ch one of the belo				coarse	grained st	ructur	e :	
	(A)	Annealing	(B)	Tempering		(C)	Cyanidin	3	(D)	Normalising
158/	2014				8					

51.	Que	nching is the proce	ess of	: ,0 7 1					
	(A)	Rapid cooling of	meta	ls	(B)	Slow	cooling of meta	ls	
	(C)	Intermediate cool	ling o	of metals	(D)	Heat	ting of metals		
52.	The	ability of the mate	rial to	resist defo	ormatio	on is			
	(A)	Ductility	(B)	Creep		(C)	Fatigue strengt	h (D)	Stiffness
53.	Pois	son's ratio is the ra	tio b	etween :					
	(A)	Strain to longitud	linal	stress	(B)	Tran	sverse strain to	axial s	train
	(C)	Longitudinal stre	ss to	axial strain	(D)	Long	gitudinal stress to	o straii	n
54.	For	ductile materials, fa	actor	of safety is	:				
	(A)	Ultimate stress Design stress	(B)	Induced st Design st		(C)	Yield stress Design stress	(D)	Design stress Yield stress
55.	Carl	on content in cast	iron	is:					
	(A)	3.2 – 5.2%	(B)	2.1 - 4.5%		(C)	8.3 – 9.2%	(D)	1.2-2%
				non-species					
56.	The	hardest known ma							
	(A)	High speed steel	(B)	Carbides		(C)	Ceramics	(D)	Diamond
		er a to disper	ag-	dan ya ji					
57.	The	ability of a materia	ıl tha	t can be dr	awn ir	nto th	in wire is :		
	(A)	Hardness	(B)	Tensile str	ength	(C)	Creep	(D)	Ductility
58.	Allo	ying of vanadium	incre	ases:					
	(A)	Toughness and w	ear 1	resistance o	f steel				
	(B)	Hardenability of	steel						
	(C)	Oxidation resista	nce o	f steel					
	(D)	Corrosion resista	nce						

59.	The	purest iron is :							
	(A)	Wrought iron	(B)	Pig iron		(C)	Electrolytic iron	(D)	Cast iron
60.	TTT	stands for :							
	(A)	Time Tempera	ature T	ransformation	on				
	(B)	Temperature '	Toughr	ess Time					
	(C)	Toughness Tr	ansforn	nation Time					
	(D)	Total Time Tr	ansforr	nation					
61.	The	welding accom	panied	by the appli	ication	of pre	essure is :		
	(A)	Gas welding	(B)	Fusion we	elding	(C)	Plastic welding	(D)	Arc welding
62.	The o	change of state of	of alloy	s due to vari	ation in	ı temp	perature and con-	centra	tion is represented
	(A)	Phase rule			(B)	Phase	diagram		
	(C)	Equilibrium di	iagram		(D)	Grapi	hs		
63.	The f	uel used in hea	rth is :						
	(A)	Coke	(B)	Wood	(	(C)	Methane	(D)	Oil
64.	The f	orging tempera	ture of	wrought ire	on is :				
	(A)	800 - 1150°C	(B)	900 – 1300	°C (	(C)	750 – 1250°C	(D)	400-500°C
65.	An E	nglish anvil has	3:						
	(A)	Two beaks	(B)	No beaks	(	(C)	Three beaks	(D)	One beak
66.	Swag	e block is made	of:						
	(A)	Mild steel	(B)	HSS	(	C) (	Cast iron	(D)	High carbon steel
158/	2014				10				Δ

67.	. Open mouth tong is used to hold :										
	(A)	Heavier stock	(B)	Round stock	(C)	Square stock	(D)	Ductile stock			
68.	Cold	chisel has a cutt	ing an	igle of :							
	(A)	45°	(B)	30°	(C)	50°	(D)	60°			
69.	Necl	king down of a w	ork is	done by :							
	(A)	Set hammer	(B)	Punches	(C)	Fullers	(D)	Square punch			
70.	Befo	re scarf welding	the en	ds of work pieces	are:						
	(A)	Made square	(B)	Rounded	(C)	Filed	(D)	Cooled			
71.	The	forging machine	worki	ng by pressure ar	re calle	ed:					
	(A)	Hammers		(B)	Pres	sure hammers					
	(C)	Presses		(D)	Ram	ming machine					
72.	The	common mass of	Anvi	l is about :		1.00					
	(A)	150 kg	(B)	200 kg	(C)	100 kg	(D)	250 kg			
73.	The	vice commonly u	sed in	smithy is:							
	(A)	Hand vice	(B)	Bench vice	(C)	Carpenter's vice	(D)	Leg vice			
74.	The	angle of double o	ut file	e is :							
	(A)	60° and 80°	(B)	60° and 70°	(C)	80° and 50°	(D)	45° and 60°			
75.	The	material for hack	saw t	plade is :							
	(A)	HCS	(B)	HSS	(C)	Tool steel	(D)	Vanadium steel			

158/2014 {P.T.O.}

76.	Prick punch has an approximate included angle of :									
	(A)	30°	(B)	90°	(C)	35°	(D)	40°		
77.	Least	t count of steel ru	le is :							
	(A)	0.5 mm	(B)	0.05 mm	(C)	0.25 mm	(D)	0.1 mm		
78.	For s	mithy operation	an anv	vil used to hold sr	nall w	ork piece is :				
	(A)	Bench vice	(B)	Hand vice	(C)	Bick iron	(D)	Leg vice		
79.	Tool	used to level and	finish	the corners of fla	at surf	faces is :				
	(A)	Set hammer	(B)	Fuller	(C)	Drift	(D)	Swage		
80.	Effec	tive length of a fi	le is th	ne distance from :						
	(A)	Point to the heel		(B)	End	of handle to the p	oint			
	(C)	Tang to edge		(D)	Tang	to point				
81.	The I	River which origi	nated	from the "Gaymi	ukh" d	cave of Himalaya				
	(A)	Ganga	(B)	Brahmaputhra	(C)		(D)	Tapti		
			de la	manager in the		THE PERSON NAMED IN COLUMN		The same		
82.	The I	ndian Museum s	ituated	d in the place of :						
	(A)	Kolkatta	(B)	Mumbai	(C)	Delhi	(D)	Kanpur		
				Thursday,						
83.	200	nstitution which			nal in	come :				
	(A)	Central Statistica	-		Plann	ning Commission				
	(C)	National Develo	pmeni	t Council (D)	Finan	nce Ministry				
84.	Natio	onal Rural Emplo	yment	Guarantee Act w	vas pa	ssed in the year :				
	(A)	2004	(B)	2006	(C)	2008	(D)	2005		

85	. Th	e architect of first	five y	ear plan of India	is:			
	(A)			(B)		I. Raj		
	(C)	J.C. Kumarapp	ра	(D)	P.C.	Mahalanobis		
86.	The	· Cashewnut Rese	arch :	Station of Kerala	is exist	ted in :		
		Panniyur	(B)				(D)	Pattambi
87.	'As	htamudi kayal' ex	isted	in the district of :				
	(A)	Kottayam	(B)	Ernamkulam	(C)	Alappuzha	(D)	Kollam
88.	The	District with leas	t coas	tal plains :				
		Ernamkulam	(B)	Kollam	(C)	Kannur	(D)	Kasaragode
89.	The	town 'Cheruthuru	ıthy'	situated on the R	iver ba	ink of :		
	(A)		(B)	Bharathapuzha			(D)	Chaliyar
90.	Nam	ne the agitation sta	rted i	in Kerala as a pro	test ag	ainst the constit	utional	reforms of 1922 .
	(A)	Channar revolt				ur riot	anorm,	reforms of 1932;
	(C)	Punnapra vayala	ar agi			thana agitation		
						dy et person		
91.	The i	founder of 'Prathy	aksh	a Raksha Daivasa	ibha (F	PRDS) was :		
	(A)	Ayyankali		(B)	Pandi	t Karuppan		
	(C)	Kumara Guru		(D)	Kuma	ranasan		
					100	and a second		
2.	Who progr	conducted 'Yach amme of education	ana \	(athra' from Trice eforms ?	hur to	Kasaragode to	collec	t money for the
	(A)	Poikayil Yohanna	n	(B)	Dr.Pal	pu		
	(C)	V.T. Vattatirippa	d	(D)	Chatta	mpi Swamikal		

93.	Ident	ify the founder o	t 'An	anda Manas	abna				
	(A)	Ayya Vaikundar			(B)	Kum	aranasan		
	(C)	Brahmanada Siv	ayog		(D)	Man	nathu Padmana	abhan	
94.	When	n did Father Kuri	akose	Elias Chav	ara w	as bea	ntified by Pope ]	ohn Pa	ul II ?
	(A)	1986	(B)	1976		(C)	1982	(D)	1988
95.	The	district which firs	tly de	clared as 'S	moke	Free	District' in India	1:	
	(A)	Kottayam	(B)	Kozhikkod	le	(C)	Ernamkulam	(D)	Alappuzha
					104	1.1	L.I	12.	
96.		ne the literary wo	rks w	nich secure			ushyanu Oru A		m
	(A)	Marupiravi			(B)		nakku Oru Tha		1111
	(C)	Aarachar			(D)	Amu	nakku Oru ma	rattu	
97.	The	first Malayalam U	Inive	rsity of Kera	la is s	etup	in the District o	f:	
		Kannur	(B)				Palakkad	(D)	Malappuram
98.	How	many digits con	sists i	n the uniqu	e id n	umbe	r of AADHAR	?	
	(A)		(B)	12		(C)		(D)	13
99.	'Ope	eration New Daw	n' is t	he beginnin	g of s	tabilit	y in :		
	(A)	Afganisthan	(B)	Iran			Iraq	(D)	Sudan
100.	The	Bodo language is	spok	en in the sta	te of				
	(A)	Mizoram			(B)	Trip	oura		
	(C)	Arunachal Prac	lesh		(D)	Ass	am		
					- 0 0	0 -	/		

158/2014

14