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1.	Which non-ferrous me		reddish in o Gold			Mild Steel	(D)	Copper
	(A) Manimum	(-)			4.4			
2.	Argon gas cylinder is	paint	ed with					
	(A) Blue colour	(B)	Grey colou	ır	(C)	Black colour	(D)	Maroon colour
3.	Which metal has high	nest me	elting point	?				
	(A) Tungsten	(B)	Aluminiur	n	(C)	Bronze	(D)	Cast Iron
4.	Which one of the w welding ?	eldin	g machines	s give	en be	low can be use	ed for	both AC and DC
	(A) Engine driven v	veldin	g generator	(B)	Mot	or driven weldi	ng gene	erator
	(C) Welding transfe	ormer		(D)	Wel	ding rectifier		
5.	Which one is suitable	for re	sistance we	lding	?			
	(A) Manual Metal					Welding		
	(C) MIG Welding			(D)		Welding		
6.	It is the distance betw							
	(A) Arc Distortion	(B)	Blow Hole		(C)	Arc Length	(D)	Arc Blow
7.	The energy source of	Therm	nit Welding	is:				
	(A) Mechanical En			(B)	Che	mical Energy		
	(C) Electrical Energ	зу		(D)	Nor	ne of these		
8.	State the nozzle size	you w	ill select to	weld	a 3.15	mm thick mild	steel s	heet:
	(A) 3	(B)	5		(C)		(D)	1777
		3	1.		200			
9.	The measuring instru				100	Lastamatan	(D)	Ohm mater
	(A) Ammeter	(B)	Voltmeter		(C)	Lactometer	(D)	Ohm meter
A				3				IP T O

10.	Whi	ch are the two m	etals o	contained in a sole	der ?			
				(B)		The state of the s		
	(C)	Copper and Tir	1	(D)	Iron	and Chromium		
11.	Rect	ifier is used for o	onvei	rting				
	(A)	DC to AC	(B)	DC to DC	(C)	AC to AC	(D)	AC to DC
12.		which terminal rity ?	of th	e D.C machine	the e	lectrode cable is	cont	nected in straigh
	(A)	Positive	(B)	Negative	(C)	Neutral	(D)	None of these
13.	All o	oxygen regulator	conn	ection has	thi	readed.		
	(A)	Left hand	(B)	Right hand	(C)	V type	(D)	None of these
14.	How	much current yo	ou wil	ll set for 4 MMØ	medi	um coated mild st	eel el	ectrode ?
	(A)	90 to 110 amp	(B)	180 to 200 amp	(C)	150 to 170 amp	(D)	70 to 90 amp
15.	Wha	t is the percentag	ge carl	oon present in mil	d stee	175-100-100		
	(A)	0.15 to 0.3%	(B)	0.05 to 0.1%	(C)	0.5 to 0.8%	(D)	0.8 to 1.4%
16.	Α_	Flame is	reco	mmended when p	orehea	ating of oxy-acety	lene o	cutting method.
	(A)			Neutral	(C)	Carburizing	(D)	CO ₂
17.	Boili	ng point of Oxyg						
	(A)	-195.8°C	(B)	−188.7°C	(C)	−182.9°C	(D)	−172.8°C
18.	The	frequency of AC	is _	Cycle/sec	cond.	and the state of t		
	(A)	40	(B)	50	(C)	60	(D)	70
19.	Nam	e the heat treatm	ent pi	ocess used to imp	orove	softness and duct	ility i	n mild steel :
		Annealing				Tempering	(D)	
20.	Wha	t should be the di	stance	e between the tip	of the	cutting nozzle fro	m the	top surface of the
		5 mm	(B)	3 mm	(C)	2 mm	(D)	7 mm
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21.	The	substances throu	igh wl	nich electrici	ity do	es not	pass are called		·
	(A)	Conductors	(B)	Insulators		(C)	Bad Conductor	rs (D)	Bad Insulators
22.	The	function of a gas	s regul	lator is to _					
	(A)	get different ty	pes of	flames					
	(B)	mix the gases in	n the r	equired pro	portio	n			
	(C)	change the volu	ıme of	gas flowing	g to th	e blov	w pipe		
	(D)	set the working	press	ure					
23.		ch weld defect or ring run ?	curs o	n a lap fillet	joint	due to	improper weav	ing of	the electrode in the
	(A)	Crack			(B)	Und	ercut		
	(C)	Edge of plate n	nelted	off	(D)	Lack	of fusion		
24.	NAC.			etween the e	end of	this c	ontact tube and	the tip	of the electrode in
		/MAG Welding		I one Are		(63)	Arc Blow	(D)	Stick Out
	(A)	Arc Length	(B)	Long Arc		(C)	Are blow	(D)	Stick Out
25.	A ch	nemical powder o	or nast	e used to di	ssolve	oxide	e is called :		
	(A)	Slag	pust	e agen to an	(B)		ninium Powder		
	(C)	Flux			(D)		Oxide		
	(-)				-				
26.	The	coating factor us	sed to	make medi	um co	ated (electrode is		
		1.4 to 1.5					1.6 to 2.2		Above 2.2
	1								
27.	Whi	ch type of flame	is use	d for weldin	ıg aluı	miniu	m ?		
	(A)	Strictly neutral	flame	es - 1 is	(B)	Oxio	dizing flame		
	(C)	Carburizing fla	ime		(D)	Sligh	ht Carburizing f	lame	
28.	Wha	at is the maximu	m leng	gth of a stub	end a	as per	standard?		
	(A)	20 to 30 mm	(B)	30 to 40 m	nm	(C)	40 to 50 mm	(D)	60 to 70 mm
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29.	The	percentage of	carbon	in acetylene	e gas i	s	strenit Alg			
	(A)	99%	(B)	92%		(C)	89%	(D)	85%	
30.	The	size of the noz	zle to be	selected for	gas w	elding	process varies	accordi	ng to the	
	(A)	thickness of	metal		(B)	weld	ding position			
	(C)	size of filler	rod		(D)	pres	sure of Gas			

31.					ent in		elding process			
	(A)	Crack	(B)	Slag		(C)	Lack of fusion	n (D)	Porosity	
32.	The	angle of blow	pipe to t	he line of w	veld in	leftw	ard welding te	chnique	is:	
		40 to 50°	(B)				60 to 70°	(D)		
33.	Wha	at is the name o	of the un	it of a TIG v	weldin	g mac	hine which hel	ps to str	ike the arc wi	thou
	touc	hing the electr	ode with	the base n	netal?					
	(A)	Wire feeder			(B)	High	frequency uni	it		
	(C)	Shielding gas			(D)	DC:	suppressor uni	t		
34.	Cton	dared size of f	luu aaate	d abates de	120000	L 322				
34.	(A)	350 mm, 450		eu electrode			FEO			
	(C)	250 mm, 350			(B)		mm, 550 mm			
	(C)	200 11111, 000	min		(D)	130 1	mm, 250 mm			
35.	Wha	t is the melting	point o	f aluminium	m ?					
	(A)	1530°C	-	850°C		(C)	659°C	(D)	250°C	
			10)			(-)	002 C	(1)	200 C	
36.	The	colour of Oxyg	gen cylir	der is						
	(A)	Blue	(B)	Black		(C)	Red	(D)	Yellow	
37.	A gr	oove or channa	al forme	d in the par	ent m	etal at	the toe of the	weld is	called :	
	(A)	Undercut	(B)	Distortion		(C)	Arc Blow	(D)	Porosity	
								III Sans		
38.	Nam	e the power so	ource sui	table for we	elding	alumi	inium in TIG w	elding:		
	(A)	AC welding	machine		(B)	DC v	velding machin	ne		
	(C)	Welding gene	erator		(D)	None	of these			

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39.	then	in this join pressed to form	100	es of thin sh	eets to l	pe joined are fol	ded, ho	oked together and
	(A)	Revetting	(B) B	olting	(C)	Soldering	(D)	Seaming
40.	The	process of hamme	ering of t	he weld met	al imme	ediately after it i	s depos	sited is called :
	(A)	Pressing	(B) D	ressing	(C)	Peening	(D)	Tinning
41.	Wha	it is the temperati	ure range	of oxy-acet	ylene fla	ames ?		
	(A)	3100 to 3300°C	(B) 26	500 to 2800°	C (C)	3400 to 3600°C	C (D)	3600 to 3800°C
42.		en the arc and mol called as	ten meta	l deviate fror	n their i	egular path due	to mag	netic disturbances,
	(A)	Arc blow	(B) B	lowhole	(C)	Distortion	(D)	Porosity
43.	For	removing water v	apour fr	om acetylene	e gas the	e material used	is:	
	(A)	Filter wool	(B) SI	teel wool	(C)	Paper filters	(D)	Pumic stone
44.	Whi	ch flux is suitable	for weld	ling brass by	oas we	Iding 2		
44.		Alotectic flux	. IOI WEIG	(B)			eeium /	dichromate flux
	1			(D)		e of these	SSIUIII	alcidolline flux
	(C)	Borax flux		(D) INOH	e of these		
45.	Wha	nt is the purpose of	of copper	coating on t	he mild	steel filler rods	?	
	(A)	To conduct the	heat fast	er				
	(B)	To avoid rusting	g of mild	steel filler ro	od durir	ig long storage		
	(C)	To increase the	strength	of the joint				
	(D)	To give good ap	opearance	e to the filler	rod			
46.	The	welding position	of weld	is defined by	two pa	rameters :		
	(A)	Weld slope and	weld an	gle (B)) Wel	d angle and wel	ld rotat	ion
	(C)	Weld slope and	weld cu	t (D) Wel	d slope and wel	d rotati	ion
47.	The	type of electrode		welding alu				
	(A)	Pure tungsten e		(B)		oniated tungste		
	(C)	Thoriated tungs	sten elect	rode (D) Ceri	ated tungsten e	lectrode	e
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48.	Wha	t step will elimin	ate th	e undercut	defect	in ar	c welding?		
	(A)	Use buttering re	un		(B)	Pre-	heat the plates	to be we	elded
	(C)	Decrease the sp	eed of	welding	(D)	Incre	ease the speed	of weldi	ng
49.		nanual metal arc	weld	ing the flux	coati	ng is	to give deep	penetrat	ion characteristics
	(A)	Cellulose			(B)	Man	ganese		
	(C)	Iron Oxide			(D)	Calc	ium Carbonate	2	
50.	Wha	t is the melting t	emper	rature of cop	per ?		taosmal's c	Soul .	
	(A)	659°C	(B)	850°C		(C)	1930°C	(D)	1083°C
51.	Oxy	gen is							
	(A)	Fuel Gas			(B)	Supp	porter of Comb	oustion	
	(C)	An inert gas			(D)	Non	e of these		
52.	-	Flame is u	sed in	Oxy-acetyle	ene ga				
	(A)	Neutral			(B)		oonizing		
	(C)	Oxidizing			(D)	Non	e of these		
53.	Purp	ose of using Jigs	and F	ixtures of cl	amps	for h	olding work in	welding	is to prevent :
	(A)	Arc Blow	(B)	Distortion		(C)	Oxidation	(D)	Undercut
54.		Gas is gen	erated	by the read	ction o	of wat	ter and calciun	n carbide	2.
	(A)	Hydrogen	(B)	Acetylene		(C)	Argon	(D)	Oxygen
	TATES	1		2			1 1 7		
55.		th one of the follo	and the same of					-	
	(A)	Zinc	(B)	Aluminiun	n	(C)	Mild steel	(D)	Copper
56.		e metal particles alled :	which	are thrown	out	of the	arc during we	lding al	ong with the weld
	(A)	Porosity	(B)	Overlap		(C)	Spatters	(D)	Undercut
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57.	Nam	ne the non-destru	ctive t	est in which	sour	nd wa	ves of high frequ	iency a	are used :	
	(A)	X-ray test	(B)	Ultrasonic	test	(C)	Gama ray test	(D)	Fatigue test	
58.	The	angle of filler rod	to th	e work in ri	ghtwa	ard we	elding technique	in gas	welding is :	
	(A)	50 - 60°	(B)	20 - 30°		(C)	40 - 50°	(D)	30 - 40°	
	8.									
59.	The	root opening on s	square	butt weldir	ng is g					
	(A)	To obtain penet	ration	i .	(B)	Тос	ontrol the distor	tion		
	(C)	To keep the job	align	ment	(D)	To n	naintain correct	dimen	sion	
60.	Ther they		ls by v	which flux co	oating	is ap	plied on the elec	trode c	ore wire which ar	e
	(A)	Dipping and Su	icking		(B)	Dipp	oing and Extrusi	on		
	(C)	Sucking and Blo	owing		(D)	Blow	ring and Extrusi	on		
61.										
	(A)	Water			(B)	Carb	oon Dioxide			
	(C)	Acetone			(D)	Mer	cury			
				Acres						
62.	Dep	ression formed at	the e	nd of weld	bead i	s calle	ed:			
	(A)	Blow hole	(B)	Crater		(C)	Spatter	(D)	Reinforcement	
63.	Whi	ch one of the foll	owing	is a radiog						
	(A)	X-ray test			(B)		asonic test			
	(C)	Magnetic Partic	le test	ŧ	(D)	Fatig	gue test			
64.	years.	- Acetylene flam								
	(A)	Physical	(B)	Chemical		(C)	Thermal	(D)	None of these	
65.		complete combus					50000 TO			
	1000000	1.5 Volume of o			(B)		Volume of oxyge			
	(C)	3.5 Volume of o	xyger	1	(D)	4.5 V	Volume of oxyge	en		
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66.	The	purpose of central hole in	the tip of	the	cutting blowpipe is :
	(A)	Supply of oxygen gas for	or pre-heat	ing	
	(B)	Supply of acetylene for	pre - heati	ing	
	(C)	Supply of oxygen for cu	itting		
	(D)	Supply of acetylene for	cutting		
67.	On	which of the following we	lding prod	esse	s the arc is not visible to welder:
	(A)	MIG (B) C	GAS Weldi	ng	(C) SAW (D) SMAW
					Entry Market State Comment of the Co
68.	Coh	umbium added electrode i	s used for	wel	ding stainless steel to prevent:
	(A)	Distortion		(B)	Excess Penetration
	(C)	Spatter		(D)	Weld Decay
69.	The	raw materials of Calcium	Carbide a	are li	ime stone and
	(A)	Quick Lime		(B)	Coke
	(C)	Calcium Oxide		(D)	Carbon monoxide
70.	Dep	th of fusion from the surfa	ice of the	weld	metal is known as :
	(A)	Penetration (B) D	istortion		(C) Fusion Zone (D) Reinforcement
-	<i>C</i> 1. 1				record to regulation (4)
71.		lless steel contains as alloy			
	10.000	Copper and Zinc		(B)	Copper and Tin
	(C)	Chromium and Nickel		(D)	Iron and Carbon
72	T- 77	CW-LU- N. LLIN			
72.		G Welding, the shielding			
		Argon		(B)	Carbon Dioxide
	(C)	Oxygen		(D)	Hydrogen
73.	In O	vy-Acetylene process	du of and	al and	
10.	(A)	xy-Acetylene process supp			
	(C)	High pressure system		B)	Medium pressure system
	(0)	Low pressure system	(D)	None of these
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74.	Flux	is not required f	or gas	welding of				
	(A)	Copper	(B)	Brass	(C)	Mild Steel	(D)	Aluminium
75.	Whi	ch two gases fron	n the a	ntmosphere must	be pr	evented from ent	ering	the weld metal ?
	(A)	Oxygen and Nit	trogen	(B)	Nitro	ogen and Argon		
	(C)	Oxygen and Ar	gon	(D)	Argo	on and Helium		
76.	Duty	cycle of welding	; mach	nine is :				
	(A)	60%	(B)	50%	(C)	40%	(D)	70%
77.	The	distance between	the to	e and root of the	weld	is called :		
	(A)	Root run	(B)	Leg length	(C)	Arc length	(D)	Reinforcement
78.	Lack	of penetration in	Arc v	welding due to:				
	(A)	High Current		(B)		Current		
	(C)	Short Arc Lengt	h	(D)	Too	Low Welding Spe	eed	
79.	Wha	t is the Chemical	symbo	ol of Acetylene ?				
, , .		C ₂ H ₂		H ₂ O	(C)	CaC ₂	(D)	CaO ₂
	(44)	C ₂ , r ₂	(10)	120	(0)	CaC ₂	(D)	CaO ₂
80.	Whic	ch type of energy	is use	d in Laser beam	weldir	ng ?		
	(A)	Light energy				Heat energy	(D)	None of these
	A. V.			0,	V. N. T. V.	0/	, <i>i</i>	
81.	Whe	re the Jawaharlal	Nehr	u Tropical Botani	ic Gar	den (JNTBGRI) s	ituate	d ?
	(A)	Mannuthy	(B)	Peechi	(C)	Aluva	(D)	Palode
82.	Who	among the follow	ving r	esorted to guerill	la war	fare in the revolt	of 185	57 ?
	(A)	Tantia Topi	(B)	Kanwar Singh	(C)	Bhakt Khan	(D)	Nanassaheb
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10.5				**				(D.T.C.)

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83.	The next ICC World Cup Cricket will	l be held at :	
	(A) England and Ireland	(B) South Africa	
	(C) Australia and Newzealand	(D) West Indies	
84.	Who was popularly known as 'Kerala	la Mopasang' ?	
	(A) C.V. Raman Pillai	(B) Thakazhi Sivasankara Pillai	
	(C) Changanpuzha Krishna Pillai	(D) S.K. Pottakkad	
85.	Who started 'Pan thibhojanam' (inter-	r-dining) in Kerala ?	
	(A) Sree Narayana Guru	(B) Brahmananda Sivayogi	
	(C) Vagbhatananda	(D) Thycaud Ayya	
86.	Which city is popularly known as 'Ste	eel City' ?	
	(A) Jamshadpur	(B) Ranchi	
	(C) Jaipur	(D) Visakhapattanam	
-			
87.	The apex level agency of 'Kudumba S		
	(A) SHG (B) ADS	(C) CDS (D) SSA	
		I d - d i - (CNDP)	
88.	Which was the journal that functioned		
	(A) Yoganadam	(B) Service	
	(C) Kaumudi	(D) Unni Nambuthiri	
89.	Who is the present Chief Minister of	Telangana 2	
07.	(A) Chandra Babu Naidu	(B) Naveen Patnaik	
	(C) Nabam Tuki	(D) K. Chandrasekhara Rao	
	(c) rimani raid	(b) At Characteristic And	
90.	The founder of 'Athma Vidhya Sangh	ham':	
	(A) Swamy Agamananda	(B) Vagbhadanandan	
	(C) Chattambi Swamikal	(D) V.T. Bhattathirippad	
	Section of the sectio	- 16.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00 - 10.00	

91.	Whe	ere did the sepoys	breal	k out in ope	n rev	olt on	May 10 th 1857	,	
	(A)	Kanpur	(B)	Barrakpor	e	(C)	Berhampore	(D)	Meerut
92.	The	first president of	India	n National (Congr	ess wa	as:		
	(A)	A.O. Hume			(B)	Dada	abhai Naoroji		
	(C)	W.C. Banerjee			(D)	Gopa	alakrishna Gokh	nale	
				7.	19				
93.	Who	discovered the s	outh-	western mai	nsoon	?			
	(A)	Pliny	(B)	Hippalus		(C)	Ptolomy	(D)	Erathosthenese
94.	The	Arabean Sea and	Persia	n Gulf are	conne	ected b	by the:		
	(A)	Hormuz Strait			(B)	Palk	Strait		
	(C)	Strait of Messina	ì		(D)	Strait	of Bab-el-Mano	deb	
5.	Who	has been chosen	for th	ne Jnanpeetl	h Aw	ard 20	13 ?		
	(A)	Mahaswetha de	vi	9	(B)	Suga	thakumari		
	(C)	Ravuri Bharadw	raj		(D)	Keda	rnath Singh		
6.	Whi	ch Central Ministr	y con	ducts the ce	ensus	every	10 year ?		
	(A)	Foreign Ministry			(B)	Defer	nce Ministry		
	(C)	Home Ministry			(D)	HRI	O Ministry		
7.	Artic	ele 360 explains :							
	(A)	Special status for	Jamr	nu and Kas	hmir				
	(B)	Financial Emerge	ency						
	(C)	Internal Emerger	ncy						
	(D)	Declaration of Pr	reside	nt Rule					
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98.	Nam	e the type of mosquito	which spre	ad M	alaria				
	(A)	Anopheles Mosquito		(B)	Aede	s Aegypti			
	(C)	Ochierotatus		(D)	Cule	x			
99.	Whe	n the Second Round T	able Confere	ence l	neld?				
		1930 (B)	1931		(C)	1929	(D)	1932	
	* *								
100.		ndia the standard tin ugh :	ne is fixed	on th	ne bas	is of stanc			sse
	(A)	Dwaraka (B)	Kovalam		(C)	Puri	(D)	Allahabad	
				-00	0-0				