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1.	During tensile test, the percentage of elongation is an indicative of :										
	(A)	creep	(B)	hardness		(C)	ductility	(D)	stiffness		
2.	Whi	ch flame is use	d in mos	st of the oxy	-acety	lene	welding ?				
	(A)	oxidizing	(B)	carburizin	ng	(C)	reducing	(D)	neutral		
3.	Whi	ch gas is norm	ally used	in gas shie	elded a	arc we	elding ?				
	(A)	argon .	(B)	hydrogen		(C)	acetylene	(D)	air		
4.	The	sand grains su	ited for s	small and ir	ntricat	e cast	ing should be :				
	(A)	fine	(B)	medium		(C)	coarse	(D)	rounded		
5.	The	best moulding	for prod	ucing plast	ic arti	cle is					
	(A)	green sand m	noulding		(B)	pit n	noulding				
	(C)	plaster moule	ding		(D)	injec	tion moulding				
6.	In b	racing the com	monly us	sed flux is :							
	(A)	copper	(B)	lead		(C)	boraux	(D)	sodium chloride		
7.	The	process used to	fix cera	mic tool wi	th the	tool l	oody is:				
	(A)	welding	(B)	bracing		(C)	soldering	(D)	clamping		
8.	A m	echanism that	locks the	lathe carri	age to	the I	ead screw for th	nread cu	tting is called :		
	(A)	dog clutch	(B)	shim		(C)	half nut	(D)	fly cutter		
9.	Whi	ch of the follow	ving is n	ot prior to t	he rea	aming	operation ?				
	(A)	drilling			(B)	tapp	ing				
	(C)	boring			(D)	cour	ter boring				

10.	Whic	ch of the following machiner	y use abrasi	ve slurry ?
	(A)	Electric Discharge Machine	(B)	Electro Chemical Machine
	(C)	Ultrasonic Machine	(D)	Spark Erosion Machine
11.	Surfa	ace tension is a phenomenon	due to :	
	(A)	cohesion	(B)	adhesion
	(C)	cohesion and adhesion	(D)	cavitation
12.	A tu	be is specified by :		
	(A)	outer diameter only	(B)	inner diameter only
	(C)	thickness and inner diamet	er (D)	thickness and outer diameter
13.		itation in centrifugal pump is		
	(A)	high discharge pressure	(B)	high discharge velocity
	(C)	high discharge rate	(D)	low suction pressure
	_			
14.		pumping slurry, the most sui		
		centrifugal pump	(B)	diaphragm pump reciprocating pump
	(C)	jet pump	(D)	reciprocating pump
15.	Nat	ch is a device for measuring :		
13.	(A)	flow velocity through a pip		
	(B)	rate of flow through a pipe		
	(C)	flow velocity through a sm		
	(D)	rate of flow through a sma		
	(-)			
16.	Whi	ich of the following turbine is	s used unde	r low head and high discharge?
	(A)	Pelton turbine	(B)	Francis turbine
	(C)	Tubular turbine	(D)	Kaplan turbine
17.	A fo	oot-valve provided in a pump	is:	
	(A)	pressure control valve	(B)	direction control valve
	(C)	flow control valve	(D)	pressure relief valve

18.	The Young's modulus is depends on :											
	(A)	stress			(B)	later	al stress					
	(C)	longitudinal str	ess		(D)	later	al strain					
19.	Max the :	imum compressi	ve stre	ess develop	ed in a	trans	sversely loaded i	rectang	ular beam is on			
	(A)	bottom layer	(B)	neutral a	xis	(C)	top layer	(D)	none of these			
20.		en a body just beg which comes in			the su	rface	of another body	, the m	aximum frictional			
	(A)	sliding friction	(B)	limiting f	riction	(C)	rolling friction	(D)	kinetic friction			
21.	Criti	ical temperature o	of stea	ım is :								
	(A)	100°C	(B)	303°C		(C)	375°C	(D)	400°C			
22.		heat absorbed by same temperature			tion ten	npera	ture to get conv	erted ii	nto dry steam at			
	(A)	sensible heat	(B)	specific h	neat	(C)	total heat	(D)	latent heat			
23.	The ratio between crank shaft speed and cam shaft speed of four stroke IC engine is :											
	(A)	2:1	(B)	1:1		(C)	1:2	(D)	4:1			
24.	Steam	m that exit from	the no	ozzle has :								
	(A)	high pressure ar	nd hig	gh velocity	(B)	high pressure and low velocity						
	(C)	low pressure an	d hig	h velocity	(D)	low	pressure and lov	w veloc	ity			
25.	On a	ı Mollier diagram	, the	ideal expar	nsion pr	ocess	of a steam turb	ine car	be represented			
	(A)	drawing a verti	cal lin	e	(B)	draw	ving a horizonta	l line				
	(C)	constant temper	rature	line	(D)	cons	tant dryness fra	ction li	ne			
26.	Bin o	card is used in :										
	(A)	stores			(B)	adm	inistrative office					
	(C)	workshop			(D)	asseı	nbly shop					

27.	The is:	incentive wage plan, in wh	uch savings a	re expressed as a percentage of standard time
	(A)	Hasley plan	(B)	Bedaux plan
	(C)	Lincon plan	(D)	Rowan plan
28.	CPM	I consider the trade off bet	ween cost and	d :
	(A)	time (B) ma	chine	(C) man power (D) material
29.	Meri	it rating is the method of de	etermine :	
	(A)	job identification	(B)	workers performance on a job
	(C)	relative value of job	(D)	utility of a machine
30.	Rout	ting and scheduling are int	egrated part	of:
	(A)	product planning	(B)	work study
	(C)	time study	(D)	quality control
31.	With	increase in intake air temp	perature, the	efficiency of an IC engine will:
	(A)	increase (B) dec	crease	(C) remains same (D) unpredictable
32.	Air	petrol ratio for maximum p	ower generat	ion in spark ignition engine is about :
	(A)	6:1 (B) 12	: 1	(C) 18:1 (D) 24:1
33.	Strol	ce of an IC engine equals :		
	(A)	half the crank radius	(B)	the crank radius
	(C)	twice the crank radius	(D)	four times of the crank radius
34.	The	float in the carburettor of a	petrol engine	e controls :
	(A)	flow rate of fuel	(B)	flow rate of air
	(C)	flow rate of air fuel mixtu	re (D)	level of the petrol in the float chamber
35.	Whie	ch of the following is the ex	ctensive prop	erty of the thermodynamic system ?
	(A)	volume	(B)	intensity of pressure
	(C)	temperature	(D)	density

30.	First	law of thermou	Vitaniu	es feleis to conse	ivatio	11 01 .		
	(A)	mass	(B)	momentum	(C)	energy	(D)	force
37.	Heat	is being supplie tant weight, the	d to a	ir in a cylinder fit ss is :	tted w	ith a frictionless	piston	held by a
	(A)	isothermal	(B)	adiabatic	(C)	isobaric	(D)	isochoric
38.	One	Ton of refrigera	tion is	equivalent to:				
	(A)	1 kW	(B)	3.5 kW	(C)	50 kW	(D)	210 kW
39.		hich component tant ?	of va	pour compression	n refri	geration system	, the en	thalpy remains
	(A)	condenser	(B)	compressor	(C)	evaporator	(D)	throttle valve
40.	Whi	ch of the psychr	ometri	c processes is use	ed in s	ummer air cond	litioner	?
		sensible heatin		(B)		ing and dehum		
	4000	sensible cooling		(D)	heat	ting and humid	ification	1
41.	Whi	ch of the followi	ng is a	an integrating typ	e inst	rument ?		
		Wattmeter	(B)	Energy meter			(D)	Voltmeter
42.	Exar	nple for an abso	lute in	strument is :				
	(A)	Earth tester		(B)	Am	meter		
	(C)	Tangent Galva	inome	ter (D)	Pov	ver factor meter		
43.	A re	pulsion type vo	ltmeter	r when used on A	AC cir	cuits, reads :		
	(A)	Peak value		(B)		an value		
	(C)	Equivalent d.c	. value	(D)	R.N	I.S. value		
44.	Whi	ch type of wattr	neter o	cannot be used fo	or both	a.c and d.c. ?		
	(A)	Induction type		(B)		namo meter typ	e	
	(C)	Electrostatic ty		(D)		ne of the above		
	()							

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	(A)	AC only	(B)	DC only
	(C)	Both AC and DC	(D)	None of the above
		Bill heartening		
46.	The	ponter returns to initial p	osition, when t	he current is removed, due to :
	(A)	Deflection torque	(B)	Controlling torque
	(C)	Damping torque	(D)	All the above
47.	Whi	ch of the following is an	active transduc	er ?
	(A)	Potentiometer device	(B)	Pirani gauge
	(C)	Piezo electric pick up	(D)	Hall effect pick up
48.	One	of the following can act	as an inverse tr	ansducer :
	(A)	Capacitive transducer	(B)	Resistance potentiometer
	(C)	Piezo electric crystal	(D)	Bourdon tube
49.	A re	sistance potentiometer is	a :	
	(A)	Zero order instrument	(B)	First order instrument
	(C)	Second order instrumer	nt (D)	None of the above
50.	In se	mi-conductor strain gaug	ge, when tensile	strain is applied :
	(A)	Resistance increases in 1	V type of mater	ials
	(B)	Resistance increases in I	type of materi	als
	(C)	Resistance increases in b	ooth P type and	N type materials
	(D)	Resistance decreases in	both P type and	l N type materials
51.		th of the following prope former core ?	rties is not nece	ssarily desirable for the material for
	(A)	Low hysteresis loss	(B)	Adequate mechanical strength
	(C)	High permeability	(D)	High thermal conductivity

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45. P.M.M.C. instrument used only in:

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52.	Whi	ch loss in a transformer varies sig	nifican	tly with load ?							
	(A)	Copper loss	(B)	Core loss							
	(C)	Hysteresis loss	(D)	Eddy current loss							
53.	The	function of breather in a transform	ner is								
	(A)	To provide cooling air									
	(B)	To provide oxygen									
	(C)	To filter the transformer oil									
	(D)	To prevent moisture entering int	to the	transformer							
54.	A sh	nort circuit test on a transformer g	ives :								
	(A)	Copper losses at full load	(B)	Iron losses at full load							
	(C)	Copper losses at half load	(D)	Iron losses at half load							
55.	Diffe	erent types of consumers are charge	ged at	different uniform per unit rates, it is called :							
	(A)	Simple tariff (B) Flat rate	tariff	(C) Block rate tariff (D) Two part tariff							
56.	A distribution transformer usually is a :										
	(A)	Star Delta transformer	(B)	Star Star transformer							
	(C)	Delta Delta transformer	(D)	Delta Star transformer							
57.	Form	n factor is :									
	(A)	Maximum value / r.m.s. value	(B)	r.m.s. value/ maximum value							
	(C)	r.m.s. value/average value	(D)	average value / r.m.s. value							
58.	Whi	ch of the following is used for me	asuren	nent of high voltage ?							
	(A)	Clip on meter	(B)	Auto transformer							
	(C)	Potential transformer	(D)	Current transformer							
59.	The	maximum value, positive or nega	tive, o	f an alternating quantity is known as:							
	(A)	Average value (B) Amplitud	le	(C) Peak value (D) r.m.s. value							
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00.	in a	purely inductive	echeun	power is e	quai i	0.			
	(A)	Maximum	(B)	Minimum		(C) Zer	ro	(D)	Unity
61.	Whi	ch generator is	nsed as	a hooster a	eneral	tor?			
01.		Shunt generat		u cooster g	(B)	Series ge	norator		
	(A)				(D)		the above		
	(C)	Compound ge	nerator		(D)	None of	the above		
62.	The	function of com	mutato	r in a d.c m	achin	e is :			
	(A)	To improve co	mmuta	tion					
	(B)	To change alte	ernating	current int	to dire	ect current			
	(C)	To improve an	mature	reaction					
	(D)	To change alte	ernating	voltage int	o dire	ect voltage			
63.	Wha	nt would happer	if the	field of d.c.	shunt	motor is	opened?		
	(A)	It will continu	e to run	at its norm	nal spe	eed			
	(B)	Speed will be	reduced						
	(C)	It will stop							
	(D)	Speed will be	enormo	usly high a	nd mi	ist destroy			
64.	The	mechanical pow	ver deve	eloped by tl	ne d.c	motor is r	naximum v	when:	
	(A)	Eb is equal to	zero		(B)	Eb is equ	al to V		
	(C)	Eb is equal to l	half of \	1	(D)	Eb is equ	al to twice	of the V	
65.	The	reversal of rotat	ion of n	notors and	as ele	ctric brakii	ng is called	:	
	(A)	Negative braki	ing		(B)	Regenera	iting brakir	ng	
	(C)	Dynamic brak	ing		(D)	Plugging			
66.	Whi	ch method is be	tter to f	ind voltage	regul	ation in ar	n alternator	?	
	(A)	E.M.F. Method	1		(B)	M.M.F. N	Method		
	(C)	Potier Triangle	Metho	d	(D)	Synchron	nous Imped	lance M	ethod

67.	Red	uction factor of a	lamp	source is:					
	(A)	M.S.C.P./M.H	C.P.		(B)	M.F	I.C.P./ M.S.C.P.		
	(C)	Total flux / En	nitted	flux	(D)	Emi	tted flux / Total	flux	
68.	In il	lumination unit	of solic	l angle is :					
	(A)	Candela	(B)	Flux		(C)	Steradian	(D)	Lumen
69.	Lum	ninous flux radia	ted ou	t per unit so	olid an	igle ir	that direction is	3:	
	(A)	Illumination	(B)	Candle p	ower	(C)	Luminance	(D)	Transmittance
70.	One	lumen per squre	mete.	r is the sam	e as :				
	(A)	One lux			(B)	One	lumen metre		
	(C)	One foot candl	e		(D)	One	candela		
71.	The	bipolar transisto	rs hav	e :					
	(A)	Low input resis	stance	compared (	to FET				
	(B)	High input resi	stance	compared	to FET	F			
	(C)	Zero input resi	stance						
	(D)	Infinity input r	esistar	ice					
72.	The	knee voltage for	a silic	on PN junct	ion is	:			
	(A)	0.3 V	(B)	0.7 V		(C)	0.1 V	(D)	0.2 V
73.	The	addition of pent	avalen	t impurity	to a se	micor	nductor creates :		
	(A)	Holes			(B)	Free	electrons		
	(C)	Positive ions			(D)	Non	e of the above		
74.	If the	e PN junction wi	ll heav	rily doped,	breako	down	voltage will :		
	(A)	Increase	(B)	Decrease		(C)	No change	(D)	Infinity
75.	Reve	erse resistance of	a dioc	le is the ord	er of :				
	(A)	Ohm	(B)	Kilo ohm		(C)	Mega ohm	(D)	Zero

76.	The:	self-destruction of an u	ınstabilised (	transis	stor is	known as:		
	(A)	Stabilisation		(B)	Biasi	ng		
	(C)	Thermal runway		(D)	None	e of the above		
77.	If co	llector supply voltage	is 10 V, then	collec	tor cu	it of voltage un	der d.c.	condition is:
	(A)	1 V (B)	5 V		(C)	10 V	(D)	20 V
78.	The	frequency response of	transformer	coupl	ing is	:		
	(A)	Poor (B)	Good		(C)	Moderate	(D)	Excellent
79.	If th	e absolute power gain	of an amplif	ier is	100 th	en its decibel g	ain is :	
	(A)	10 db (B)	20 db		(C)	30 db	(D)	40 db
80.	With	gate open an SCR car	be turned o	on by	maki	ng supply volta	ge:	
	(A)	Very small		(B)		high		
	(C)	Equal to break over v	oltage	(D)	Less	than break ove	r voltag	ge
81.	Indi	an economy is most ap	propriately					
	(A)	Socialist economy		(B)		ed economy		
	(C)	Capitalist economy		(D)	Non	e of these		
	***							
82.		eless Telegraph was in	vented by :	(D)	T	No.		
	(A)	Marconi		(B)	Edis	c Newton		
	(C)	Humphrey Davy		(D)	Edis	OH		
83.	AGN	MARK is :						
00.	(A)	Co-operative for egg	production					
	(B)	Regulated agricultur						
	(C)	Farmers Co-operativ						
	(D)	A quality guarantee		ricult	ural a	nd allied comm	odities	
	* 0.6			and the same				
84.	The	Azad Hind Fauj was f	ormed by :					
	(A)	Rash Behari Bose		(B)	Gop	alakrishna Gok	hale	
	(C)	Subhash Chandra Bo	ose	(D)	Bala	Gangadhara T	ilak	

85.	The first signs of disturbance in 1857 occurred at :											
	(A)	Kanpur	(B)	Lucknow		(C)	Meerut	(D)	Delhi			
86.	The	declaration of "F	oorna	Swaraj" as th	ne or	ıly go	oal to strive for ca	ame at	:			
	(A)	Lahore	(B)	Culcatta		(C)	Delhi	(D)	Bombay			
87.	Who	invented the co	mpute	er ?								
	(A)	Joseph Aspdin	(B)	Charles Bab	bage	e (C)	Marconi	(D)	Einstein			
88.	"Kai	nneerum Kinavu	m" w	as the famous	woi	rk of	:					
	(A)	V.T. Battathirip	opadu	(	(B)	Bala	maniyamma					
	(C)	Uroob		(	D)	Thal	kazhi					
89.	The	science of space	travel	is called :								
	(A)	Aeronautics	(B)	Archaeology	y	(C)	Arboriculture	(D)	Anemology			
90.	Muc	lumalai Sanctuar	y is si	tuated in :								
	(A)	Kerala	(B)	Karnataka		(C)	Gujarat	(D)	Tamil Nadu			
91.	The "Cradles of Civilization" have been :											
	(A)	valleys	(B)	plains		(C)	plateau	(D)	hills			
92.	Khy	ber Pass is locate	ed in :									
	(A)	Pakistan	(B)	India		(C)	Nepal	(D)	Bangladesh			
93.		t Vallathol revive	ed Kat	hakali and Mo	ohin	iyatta	ım by establishin	g Ker	ala Kalamandalam			
	at:				(7)	1/	1 1					
	(A)	Cheruthuruthi			(B)		amkulam					
	(C)	Thiruvanantha	purai	m (	(D)	Ado	oor					
94.	Who	o was known as	the "l			} 						
	(A)				(B)		hassi Raja					
	(C)	Marthanda Va	ırma		(D)	Sam	oothiri of Kozhi	kode				

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95.	The	first Hydro Ele	ctric Pro	oject of Kerala wa	is:			
	(A)	Idukki	(B)	Malampuzha	(C)	Pallivasal	(D)	Kallada
96.	The	man popularly	known	as 'Gurudev' is :				
	(A)	Gandhiji		(B)	Rabi	ndra Natha Tag	gore	
	(C)	Guru Gobind	Singh	(D)	Raj (	Guru		
97.	Who	was the Keral	a Gover	nor who became	the Pr	esident of India	?	
	(A)	Zakir Hussair	1	(B)	R. V	enkata Raman		
	(C)	Dr. Rajendra	Prasad	(D)	V.V.	Giri		
98.	Whi	ch of the follow	ing boo	ks is not written	by M.	Γ. Vasudevan N	air?	
	(A)	Nalukettu	(B)	Asuravithu	(C)	Yantram	(D)	Kalam
99.	Four	nder of Sadhuja	ana Pari	palana Sangam :				
	(A)	Vagbadanano	lan	(B)	Chat	tambi Swamika	al	
	(C)	Sree Narayan	a Guru	(D)	Ayya	ankali		
100.	Sree	Narayana Gur	u was b	orn at :				
	(A)	Chirayinkeez	hu	(B)	Cher	npazhanthi		
	(C)	Kanyakumari		(D)	Kollı	ar		

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