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1.	The	dynamic viscosity of most of the	gases .	with rise in temperature.
	(A)	Increases	(B)	Decreases
	(C)	Does not change significantly	(D)	None of these
2.	Buo	yant force is		
	(A)	Resultant of up thrust and grav	ity forc	es acting on the body
	(B)	Resultant force on the body due	to the	fluid surrounding it
	(C)	Equal to the volume of liquid di	splaced	l by the body
	(D)	Resultant of static weight of boo	ly and	dynamic thrust of liquid
3.		type of flow in which the velocity ant, in direction and magnitude is		ery particle varies from point to point, or every as :
	(A)	Laminar flow	(B)	Uniform flow
	(C)	Steady flow	(D)	Turbulent flow
4.		point in the immersed body throun to act is known as:	agh wh	nich the resultant pressure of liquid may be
	(A)	Centre of buoyancy	(B)	Metacentre
	(C)	Centre of gravity	(D)	Centre of pressure
5.	The	condition at which a piezometer	cannot	be used :
	(A)	Velocity is high	(B)	Pressure difference is low
	(C)	Fluid is highly viscous	(D)	Fluid in the pipe is a gas
6.		changes with coefficient	of discl	harge of an orifice.
	(A)	Reynold's number	(B)	Weber number
	(C)	Froude number	(D)	Mach number
7.	Berr	noulli's equation cannot be applied	d wher	n the flow is:
	(A)	Unsteady	(B)	Rotational
	(C)	Turbulent	(D)	All of the above

8.	A body is placed inside a tank. If one meter water column is present above the object, what will be the pressure acting upon it?										
	(A)	1 Pa		(B)	9810 Pa		(C)	981 Pa	(D)	98.1 Pa	
9.	Whi	ch amon	g the flo	wing p	ossesses h	ighest	densi	ty?			
	(A)	Carbon	tetrach	loride		(B)	Air				
	(C)	Glyceri	n			(D)	Cast	or oil			
10.	quar					4.00		le of the liquid of below the top			
	(A)	Orifice	Jurcine	,	the nquie	(B)	Wei		cugo o		
	(C)	Notch				(D)		e of these			
11.	The	discharg	e throug	sh righ	t angled no	otch, if	f the c	d is 0.6, will be			
	(A)	4.171 H	[5/2	(B)	1.417 H ^{5/}	2	(C)	0.417 H ^{5/2}	(D)	7.141 H ^{5/2}	
12.	The	top of we	eir is kn	own as							
	(A)	Sill or c	rest			(B)	Orifi	ce			
	(C)	Nappe	or van			(D)	Non	e of these			
13.	Matl	hematical	lly, the t	heoret	ical velocit	y of je	t at ve	ena contract is :			
	(A)	H√2g		(B)	$2g\sqrt{H}$		(C)	2gH	(D)	$\sqrt{2gH}$	
14.	The	hammer	blow ef	fect oc	curs in pip	es du	e to _				
	(A)	The flor	w of liqu	nid gra	dually brou	aght to	rest l	by closing the va	alve		
	(B)	The exc	essive le	eakage							
	(C)	Burstin	g under	high p	ressure of	liquid					
	(D)	Sudden	stoppin	g of fl	ow						
15.	Imp	ulse turb	ine may	be uti	lized at str	eams	havin	g·			
	(A)	High d	ischarge			(B)	High	n head			
	(C)	Low he	ad			(D)	Med	ium head			

16.		ratio of quantities of liq time is known as		rged f	rom pump to that p	passing through impeller at
	(A)	Mechanical efficiency		(B)	Overall efficiency	
	(C)	Volumetric efficiency		(D)	Manometric effici	ency
17.		percentage of power sa installation of an air ves		oe atta	ined in a single act	ing reciprocating pump by
	(A)	48.8% (B)	78.4%		(C) 84.4%	(D) 39.2%
18.		the stability of a floating	g body, un	der the	e influence of gravi	ty alone, which of the
	(A)	Metacenter should be	below cen	ter of	gravity	
	(B)	Metacenter should be	above cent	ter of g	gravity	
	(C)	Metacenter and center	of gravity	must	lie on the same ho	rizontal line
	(D)	Metacenter and center	of gravity	must	lie on the same ver	tical line
19.	The	property of material wh	nich helps	in coir	ning, ornament wor	ks and forging is :
	(A)	Plasticity		(B)	Ductility	
	(C)	Elasticity		(D)	Malleability	
20.	and	of the thermosel	ting plasti	cs can	be irreversibly for	med into shape, under heat
	(A)	Some		(B)	None	
	(C)	All		(D)	None of these	
21.	In a	reciprocating IC engine	, the gudg	eon pi	n forms the link be	tween.
	(A)	Piston and big end of	connecting	rod		
	(B)	Piston and small end	of connecti	ng roc	1	
	(C)	Connecting rod and c	rank			
	(D)	Big end and small end				
22.	The	ratio of Actual thermal	efficiency (to the	Air standard efficie	ency gives :
	(A)	Mechanical efficiency		(B)	Actual air standa	rd efficiency
	(C)	Relative efficiency		(D)	Theoretical therm	al efficiency

23.	The	efficiency of dies	el cycle is same	as:			
	(A)	Otto cycle		(B)	Stirling cycle		
	(C)	Carnot cycle		(D)	Ericsson cycle		
24.		the same compres	sion ratio and	heat inp	out, arrange the efficier	ncies of various cyc	les in
	(A)	Otto, Dual, Dies	el	(B)	Otto, Diesel, Dual		
	(C)	Diesel, Otto, Du		(D)	Dual, Diesel, Otto		
25.	The	major loss in a CI	engine is:				
	(A)	Direct heat loss		(B)	Friction loss		
	(C)	Pumping loss		(D)	Loss due to incomple	te combustion	
26.	Adv	antage of gaseous	fuel is that :				
	(A)	It can be stored	easily .				
	(B)	It can mix easily	with air				
	(C)	It can displace n	nore air from th	ne engin	e		
	(D)	All of the above					
27.	Octa	ne number of iso	-octane is :				
	(A)	0	(B) 96		(C) 69	(D) 100	
28.	The	lean air mixture is	s required durin	ng:			
		Cruising	-	(B)	Idling		
	(C)	Starting		(D)	Accelerating		
29.	Mod	ern carburettors p	provide the corr	rect qua	lity of air-fuel mixture	during:	
	(A)	starting		(B)	idling		
	(C)	cruising		(D)	all conditions		
30.	Com	mon rail injection	system uses in	jection	pressure of the order :		
	(A)	100 - 200 bar	(B) 200 - 400) bar	(C) 400 - 600 bar	(D) 1500 bar	

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31.	and		20°C.	If the them	mal co	nduct			surface at 140°C s 0.85 W/mK, the
	(A)	120°C	(B)	90°C		(C)	110°C	(D)	80°C
32.	Con	vective heat trans	sfer is	quantified	by:				
	(A)	Fourier's law			(B)	New	ton's law		
	(C)	Stefan-Boltzma	nn lav	v	(D)	Kirc	hhoff's law		
33.	For a	a black body :							
	(A)	Absorption is n	naxim	ım	(B)	Radi	ation is maxir	mum	
	(C)	Reflection is zer	ro		(D)	All t	he above		
34.	A gr	ay body is a :							
	(A)	Ordinary body	(B)	Opaque b	ody	(C)	Black body	(D)	White body
35.	Selec	t the positive dis	splacer	nent comp	ressor	:			
	(A)	Roots blower			(B)	Van	e blower		
	(C)	Reciprocating of	ompre	essor	(D)	All t	he above		
36.		n equal and oppo lled :	osite fo	orces applie	d to a	body,	tend to elong	ate it, the	stress to produced
	(A)	Shear stress				(B)	Compressive	stress	
	(C)	Tensile stress				(D)	Transverse s	tress	
37.	The calle		terial	by which it	can b	e drav	vn, due to ten	sion to a	smaller section is
	(A)	Plasticity	(B)	Ductility		(C)	Elasticity	(D)	Malleability
38.	Fact	or of safety is the	ratio	of:					
	(A)	Yield stress and	l work	ing stress					
	(B)	Tensile stress ar	nd wo	rking stress					
	(C)	Compressive st	ress ar	nd working	stress				
	(D)	Bearing stress a	nd yie	ld stress					

39,		ormly distributed			gram c	over t	ne length of	r a beam, ca	rrying a
	(A)	Linear	(B)	Parabolic		(C)	Cubical	(D)	Circular
40.	A be	eam is said to be o	of unit	form streng	th, if:				
	(A)	B.M. is same the	rough	out the bea	m				
	(B)	Shear stress is s	ame t	hroughout	the bea	am			
	(C)	Deflection is sai	ne thi	oughout th	e bear	n			
	(D)	Bending stress i	s sam	e at every s	ection	along	it's longitu	dinal axis	
41.		ratio o <mark>f</mark> the effect s-sectio <mark>nal area, i</mark>			lumn	and m	ninimum ra	dius of gyra	ition of it's
	(A)	Buckling factor			(B)	Slene	derness rati	0	
	(C)	Crippling factor	t		(D)	Non	e of these		
42.	Strut	ts are load carryin	ng me	mbers of a	frame	struct	ture which	are subjecte	d to:
	(A)	Axial tension lo	ads		(B)	Axia	l compressi	ve loads	
	(C)	Torsional loads			(D)	Tran	sverse load	s	
	700					- 11			
43.	a course	portion of a brick				10-220		(7)	
	(A)	Closer	(B)	Half brick		(C)	Bed	(D)	Bat
44.	A bo	am is defined as	a etmi	ctural mam	lace on	hiasta	d to .		
12.	(A)	Axial loading	a suu	cturai mem	(B)		sverse load:	ing	
	(C)	Axial and trans	verse	loading	(D)		e of the abo	100	
	(-)	Thank their trains		ionemig	(2)	11011	or the dec	, .	
45.	Long	column is one :							
	(A)	Which is more t	han 3	m long					
	(B)	Whose lateral di	mensi	ion is less th	han 25	cm			
	(C)	Which is free at	it's to	р					
	(D)	Which has a rat	io of e	ffective len	gth to	least	lateral dime	ension more	than 15

s known
ng
Z.
/cm ²

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55.	For o	ne cubic meter of	brick	masonry, r	numbe	er of t	ricks required	18:		
	(A)	400	(B)	425		(C)	450	(D)	500	
56.	The c	ommonly used li	me in	white wasl	hing is	s :				
270.750		White lime			(B)	Fat l	ime			
	, ,	Hydraulic lime			(D)	Quic	k lime			
57.	Good	quality cement o	ontair	ns higher p	ercent	tage o	f :			
		Tri-calcium silica		0 1	(B)		alcium silicate			
		Tri-calcium alun			(D)		a-calcium alur		ite	
58.	Sound	dness test of ceme	ent is	carried out	to de	termi	ne :			
	(A)	Quantity of free	lime		(B)	Ultir	nate strength			
	(C)	Durability			(D)		al setting			
59.	A wa	ll seasonal timber	r may	contain me	vieture	a un t	0.			
52.		4% to 6%	Section 1	6% to 8%		70 May 1	8% to 10%	(D)	10% to 12%	
	(13)	4.0 000	(0)	0.0 10 0.0		(0)	0.0 10 10 %	(2)	10 % to 12 %	
60.	Vene	ering means :								
	(A)	Carving out desi	gns or	timber pla	anks					
	(B)	Chemically treat	ing tir	nber plank	s					
	(C)	Thick layer of su	perior	wood glue	ed to i	nferio	or wood			
	(D)	Thin layer of sup	erior	wood glue	d to ir	nferio	wood			
61.	Most	commonly used s	solven	t in oil pair	nt is :					
	(A)	Petroleum	(B)	Spirit		(C)	Coal-tar	(D)	Turpentine	
62.	Spirit	varnish generally	v cons	ist of :						
		Oil, wax and res			(B)	Alco	hol, wax and	turpentii	ne	
		Pigment and syn		resin	(D)		t and shellac			
63.	The state of the s	process of proper ortion is known a		ccurate me	asurei	ment	of concrete ing	gredients	for uniformi	ty of
		Grading		Curing		(C)	Mixing	(D)	Batching	

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64.	M ₁₀₀	grade of concre	te app	roximates :						
	(A)	1:3:6 mix	(B)	1:1:2 m	ix	(C)	1:2:4 mix	(D)	1:1:5:3 mix	
65.	The	stretcher bond is	gener	ally used ir	ı:					
	(A)	Half brick wall			(B)	Simp	le brick wall			
	(C)	1½ brick wall			(D)	Arch	es			
66.	The	type of bond in	which	every cours	se con	tains b	oth headers a	nd stretc	hes is called :	
	(A)	English bond			(B)	Flem	ish bond			
	(C)	Russian bond			(D)	Mixe	d bond			
67.	Spac	ing of stirrups in	n a rec	tangular be	am is	:				
	(A)	Kept constant	throug	hout the le	ngth					
	(B)	Decreased tow	ards th	ne center of	the b	eam				
	(C)	Increased at th	e cente	er of the bea	am					
	(D)	Increased at th	e ends							
68.	The	distance betwee	n the c	enter of adj	jacent	rivets	in the same ro	w is cal	led :	
	(A)	Pitch	(B)	Lap		(C)	Gauge	(D)	Staggered pitch	
69.	A be	eam is said to be	of uni	form length	. if :					
		B.M. is same th								
	(B)	Shear stress is				am				
	(C)	Deflection is sa								
	(D)	Bending stress	at eve	ry section a	long it	t's long	itudinal axis			
70	A 1-			1-61						
70.		ending moment				ul		ماد مدياه	a anati an	
	(A)	Arithmetic sun Arithmetic sun						de or th	e section	
	(B)	Arithmetic sun						ide of th	w section	
	(C)	None of the ab		e moments	or an	nie ion	les on either s	ide of th	e section	
	(D)	Notic of the ab	ove							

71.	Seco	nd generation computers used		Technology.	
	(A)	Integrated Circuits	(B)	Transistors	
	(C)	Vacuum Tubes	(D)	Microprocessor	
72.	The	type of computers used to mea	asure con	ntinuous quantities are	
		Hybrid Computers	(B)		
	4	Analog Computers	(D)		
73.	Whi	ch is an example of non-impact	t printer	?	
	(A)	Inkjet Printer	(B)	Dot Matrix Printer	
	(C)	Daisy Wheel Printer	(D)	Drum Printer	
74.	The	unit that controls function of C	CPU is _		
	(A)	Arithmetic Logical Unit	(B)	Control Unit	
	(C)	Memory	(D)	ROM	
75.	An e	example of Secondary Storage	device is		
	(A)	Hard Disk (B) ROM		(C) RAM (D) PRO	M
76.	Whi	ch is an input device ?			
	(A)	Printer	(B)	Keyboard	
	(C)	Plotter	(D)	None of the above	
77.	2000	sical components which constitu			
	(A)	Hardware (B) Softwa	re	(C) Assembler (D) Inter	preter
78.				to the memory of computer is called	
	(A)	Sorting (B) Debugg	ging	(C) Merging (D) Booti	ng
79.	Exan	nple for an operating system is			
	(A)	COBOL (B) BASIC		(C) WINDOWS (D) C++	
80.	An e	example of output device is			
	(A)	Mouse (B) Light P	'en	(C) Scanner (D) Moni	tor
81.		is known as father of gynecolo	gy?		
	(A)	Christian Bernard	(B)	Harriet Washington	
	(C)	James Marion Sims	(D)	Anarcha Samuel	

82.		ording to RNI rep spaper in India ?		015 which is	the la	argest	circulated sing	le editio	on English
	(A)	Hindustan Tim	es		(B)	Time	es of India		
	(C)	The Hindu			(D)	The	Indian Express		
83.		first Indian MNC panies :	to be	enlisted in t	the Fo	ortune	500 table of the	e world	's biggest
	(A)	Tata	(B)	Birla		(C)	Reliance	(D)	Hinduja
84.	Ope by:	ration Sophia a n	naval o	operation aga	ninst	huma	n smugglers an	d traffi	ckers is initiated
	(A)	CN	(B)	UN		(C)	UWAC	(D)	EU
85.		first book on Sve							iterature is :
	(A)	War's Unwoma	inly F	ace	(B)		es from Cherno	byl	
	(C)	Zinky Boys			(D)	The	Last Witness		
86.	The is:	anti-biotic drug (Colisti	n which is us	sed a	gainst	superbugs has	serious	side effect as it
	(A)	Neurotoxic	(B)	Hemotoxic		(C)	Mycotoxic	(D)	Nephrotoxic
87.	cour								that each member nined Contribution
	(A)	3 year cycle	(B)	4 year cycle	e	(C)	5 year cycle	(D)	6 year cycle
88.	The	United Nations I	Frame	work Conver	ntion	on C	limate Change	2015 wa	ns held at :
	(A)	London	(B)	Paris		(C)	Geneva	(D)	Vatican
89.	The	state having the	highe	st number of	publ	ication	ns:		
	(A)	Uttar Pradesh	(B)	Maharasht	ra	(C)	Delhi	(D)	Tamil Nadu
90.	The	language in whic	ch the	highest num	ber c	of pub	lications in Ind	ia :	
	(A)	Bengali	(B)	Marathi		(C)	English	(D)	Hindi
91.	Whi	ch is the country	outsic	le Asia to ha	ve H	indi a	s their official la	anguage	?
	(A)	700000	(B)	Solomon Isi				(D)	Micronesia

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92.		rding to Article 3 Bills etc. should		the language is	n the Su	ipreme Court and	in H	igh courts and for
	(A)	Hindi						
	(B)	English						
	(C)		ne Co	urt and the offi	icial lan	guage of the state	whe	re the High Court
	(D)	Hindi or English	in SC	and the officia	al of the	state where the I	ligh (Court belongs to
93.	The a		es the	law related to	water d	isputes of inter-st	ate riv	vers or river
	(A)	Article 259	(B)	Article 260	(C)	Article 261	(D)	Article 262
94.	Mah	atma Gandhi Setl	nu is b	ouilt across the	river :			
	(A)	Ganga	(B)	Yamuna	(C)	Sarayu	(D)	Brahmaputra
95.						ha later converte after convertio		Christian faith
	(A)	T. C. Mathai	(B)	C. K. John	(C)	C. J. Joy	(D)	K. C. Roy
96.	Whie	ch among the foll	owing	g newspapers is	not edi	ted by K. Ramak	rishna	Pillai ?
	(A)	Malayali		(B)	Kera	la Darpanam		
	(C)	Kerala Sanchari	i	(D) Kera	llan		
97.	The	country which in	trodu	ced the digital r	money A	ATM for Internet	based	business:
	(A)	Australia	(B)	Canada	(C)	USA	(D)	India
98.	CRI	Tamil radio is op	erated	l in :				
(2) (B.B.)		AND ASSESSMENT OF THE PARTY OF			(C)	Malasia	(D)	Indonasia
0.0	TA71.	1 (1) (1)				ulication (or DCs	2	
99.			77			plication for PCs		Tilounday 12
	(A)	Win 10	(b)	Android	(C)	Flutter	(D)	Counta 15
100.	Who	coined the word	SEN	SEX ?				
	(A)	Nirmal Verma	(B)	Harshad Metl	ha (C)	Dileep Chabria	(D)	Deepak Mohani
				-0	0 o -			