SECTION - I

ENGLISH

1.	Whi	ch Junction Trans	sistor i	s preferred for h	igh in	put and low ou	tput im	pedances ?
	(A)	Common Collec		(B)		nmon Base		
	(C)	Common Emitte	er	(D)	Any	one of these		
2.		plete the following	0					
		24, 60, 120, 210,	?		W THEW			
	(A)	336	(B)	240	(C)	410	(D)	360
3.	Who	is the winner of	Men's	s Singles Title in	Wimb	ledon, 2014 in T	Tennis ?	
	(A)	Roger Federer	(B)	Rafael Nadal	(C)	Marin Cilic	(D)	Novak Djokovic
4.	Whi	ch one of the foll	owing	contains Human	n body	y's thermostat?	*	
	(A)	Pineal	(B)	Pituitary	(C)	Thyroid	(D)	Hypothalamus
5.	Spot	t welding is an e	xampl	e of	weldi	ng.		
	(A)	Gas		(B)	Resi	istance		
	(C)	Arc		(D)	Tun	gsten Inert Gas		
6.		rthographic proj other.	ection,	visual rays or li	ines of	f sight for a giv	en view	areto
		Parallel	(B)	Normal	(C)	Oblique	(D)	None of these
7	Whi	ich one of the foll	owing	problems is not	create	ed by Noise Poll	ution?	
	/			Hypertension			(D)	Irritation
8.	Whi	ich of these will r	ot be	oxidised by Ozor	ne?			
	(A)	KI	(B)	FeSO ₄	(9)	KMnO ₄	(D)	K_2MnO_4
9.	If th	ne volume of a Ci	ıbe is	729cm^3 , then the	e total	surface area of	this Cul	pe will be:
	(A)	81 cm ²	(B)	486 cm ²	(C)	484 cm ²	(D)	529 cm ²
10		minimum value put is called:	e of in	put which is ned	cessar	y to cause a de	tectable	change from zero
3. 1	(A)	Least Count	(B)	Resolution	(C)	Drift	(D)	Threshold
T	SG0011	L14				*		

VL	
11.	The ozone layer is useful for living beings because:
	(A) It serves as the source of oxygen
	(B) It maintains the temperature of the earth
	- I from howmful ultraviolet rays of the sun
	It protects them from namual unitavioletrays of the
	and an anadarator in nuclear reactors?
12.	Which of the following is used as a moderator in nuclear reactors? (A) Hard water (B) Mineral water
	(A) Halu water
	(C) Deionized water (C) Heavy Water
13.	Stefan Boltzmann Law is applicable for Heat Transfer by: (D) Convection (C) Radiation (D) All of these
	(A) Conduction (B) Convection (C) Radiation (D) All of these
14.	A correct food chain is:
	(A) Producers, Herbivores, Carnivores
	(B) Producers, Carnivores, Herbivores
	(C) Herbivores, Carnivores, Producers
	(D) Herbivores, Producers, Carnivores
15.	The power of a single phase AC circuit is given by:
13.	The power of a single phase $VI \cos \phi$ (C) $VI \sin \phi$ (D) None of these (A) VI
\$25 SEE	
16	x and y can complete a work in 18 days; y and z can complete this work in 24 days; x and y can complete a work in 18 days; y and z complete this work
16.	and y can complete a work in 16 days, y dried 2 days will x, y and z complete this work can complete this work in 36 days. In how many days will x, y and z complete this work
	working together?
	working together? (A) 26 days (B) 13 days (C) 16 days (D) 8 days
	(I1) $= 0$ $= 0$
17	A circle will appear, on an isometric drawing as a/an (C) Circle (D) Cycloid
1/.	DE TILINGO (() CITCLE
	(A) Parabola (b) Empse
4.0	Who is the winner of Nobel Prize, 2014 in the field of Literature?
18	A (11) 1 In head (11) 11 (11) 1111
	(A) rump nour
	(C) Haruki Murakami (D) Ngugi Wa Imong o
	$\frac{5}{7}$ $\frac{13}{10}$ $\frac{16}{10}$ and $\frac{3}{10}$ in ascending order of magnitude:
19	. Arrange the fractions $\frac{5}{8}$, $\frac{7}{12}$, $\frac{13}{16}$, $\frac{16}{29}$ and $\frac{3}{4}$ in ascending order of magnitude :
	16 7 5 3 13
	$(A) \frac{16}{29} < \frac{7}{12} < \frac{5}{8} < \frac{3}{4} < \frac{13}{16}$ $(B) \frac{16}{29} < \frac{5}{8} < \frac{7}{12} < \frac{13}{16} < \frac{3}{4}$
7	Land J. Land
	(C) $\frac{3}{4} < \frac{13}{16} < \frac{7}{12} < \frac{5}{8} < \frac{16}{29}$ (D) $\frac{3}{4} < \frac{5}{8} < \frac{7}{12} < \frac{13}{16} < \frac{16}{29}$
	(C) $\frac{1}{4}$ 16 12 8 29 (C) $\frac{1}{4}$ 16 12 16 29

	15 kr	n in the West dire	km in ection	the North direction and then 18 km	tion; in the	then 15 km in South direction	the East	direction; then ar is he from the
	start)	ng point? 6 km	(B)	12 km	(C)	33 km	(D) 6	0 km
21.	The	United Nations D	ay (U	.N. Day) is celebr	ated 6	every year on:		
	(A)	Oct. 24	(B)	Nov. 6	(C)	Dec. 26		(D) March 1
22.		ninium is commo	nly us	ed as conductor m	ateria	l in transmission	n lines coi	mpared to copper
		It is more condu	active	(B)	Its te	ensile strength i	s more	
	,	It is costlier		(D)	It is	cheaper and lig	ghter	
23.	Con	aplete the following	ng giv	ren series :				
	6, 12	2, 21, 33, 48,?	e .					
	(A)	60	(B)	57	(C)	54	V(D)	66
24.	In S	and Moulding, th	ne top	flask is known as	S :			Chacle
	(A)	Cope	(B)	Drag	(C)	Fillet	(L)	Check
25.	Fin	d the value of:						
	(51	+52+53+54+				and promy front		2525
	(A)	3775	(B)	5050	(C)	1275	(D)	2323
01	TATE	nich of the follow:	ing is	an SI Engine?				
26.	(A)	Diesel Engine	(B)	Petrol Engine	(C)	Gas Engine	(D)	None of these
27.	Va	lence electrons in	the ele	ement A are 3 and	that i	n element B are	6. Most p	robable compound
	for	med from A and	B is:		4			A TO
	(A) A ₂ B	(B)	AB ₂	10	A_2B_3	(D)	A_3B_2
~ ~	TAT	1 · 1 1 of thorn	andrin	amics defines En	ropy	?	*	
28			louyn /R) First	. (C	Second	(D)	Third
	(A	Zero th	(D) 11131				
29	. A	lka is older than N	Aala.	Gopal is older tha	n Mal	a but younger t	han Alka.	Mala is older than
	Ra	am. Who is the e	Idest a			A 11.0		Ram
Ì	(P)	(a) Gopal	(B	Mala (1	Alka		A C C A A 2.

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VL %					17				101058	39
extu wereen cons		awing, the s	arface roll	ohness is re	enresen	ited b	V :			
30.		Circles		Squares		(C)	Triangles	(D)	Zig - Zag lir	nes
31.	Natur	re's cleaners	are:				Decomposers		Carnivores	
	(A)	Producers	(B)	Consume	rs ·		Decomposers		Callinvoics	
32.	(A)	which one Swadeshi N Civil Disob	Movement		(B)	Non-	slogan "Do o Cooperation I India Movem	Moveme	ssociated?	
484	(C)	CIVII DISOU	earence wa			~				
33.	Mha	t does an ele	ectronic spi	readsheet c	onsist (of?				
J J 3		Rows		Columns			Cells	(D)	All of the a	bove
34.	Find	compound	interest or	1 ₹ 7,500 at	the ra	te of	4% per annun	n for 2 y	rears, compor	unded
	(A)	ally? ₹ 612	(B)	₹ 300		(C)	₹ 600	(D)	₹ 630	
25	Mhc	of the follo	wing is res	earded as t	he arch	itect	of the Indian (Constitu	tion?	
33.	(A)	Pandit Ne	hru		(B)	B.R.	Ambedkar			
	\ /	Mahatma			(D)	Raje	endra Prasad			
	()									
36.	36 n wor		plete a wo	rk in 18 da	ys. In 1	now 1	many days wil	1 27 mer		e same
		24 days	(B)	12 days		(C)	30 days	(D)	42 days	
37.	Cho	ose the stat	ement which	ch is correc	ct:					
31.		PERT is e			(B)	PEF	RT is not event	oriente	d	
	\ /	CPM is ev			(D)	CPI	M is not activit	y orient	ed	
38.	Ab	arometer m	easures:			,				
	(A)	Absolute	pressure		(B)	Atr	nospheric pres	ssure		
. /	(C)	Gauge pr	essure		(D)	Vac	cuum			
39.	Wh	ich one of t	he following). (B)	ng years wa 1904 A.	as not a	Leap (C)	year? 2000 A.D.	(D) 1888 A.D	
40	. A j	perfect gas	at 27 °C is	heated at	constar	nt pre	essure till its v			
		nperature is 54°C	· (B)	108°C		He	327°C	$(\Gamma$) 600°C	*
	(A)) 07 0				SEES 29 10			TSG	3001114

The present age of a father is 3 years more than three times the age of his son. After three

years, father's age will be 10 years more than twice the age of the son. Find the present age

	of the	e Father.								
	(A)	30 years	(B)	33 years		(C)	36 years	(D)	39 years	
42.	An A	amplifier has a	power s	gain of 50.	This ga	ain in	dB will be:			
.A. anus o		log 50	(B)	10 log 50		(C)	100 log 50	(D)	50 log 50	
43.	Find	the L.C.M. of	$\frac{1}{3}$, $\frac{5}{6}$, $\frac{2}{3}$	$\frac{2}{5}, \frac{4}{27}$:		A				
	(A)	$\frac{1}{54}$	(B)	10 27		(C)	$\frac{20}{3}$	(D)	None of the	ese
44.	Who	is the Winner	of Pro I	Kabaddi Le						
	(A)	U Mumba			(B)	Jaipu	ar Pink Panthe	rs		
	(C)	Patna Pirates	5		(D)	Beng	galuru Bulls			
45.	To b	e eligible for n	nembers!	hip of the L	ok Sab	ha, a	person should	be atlea	st:	
	(A)	18 years of a	ge		(B)		ears of age			
	(C)	35 years of a	ge		(D)	25 y	ears of age			
		and the second s		ter is $\frac{4}{3}$. W	hat is t	he sp	eed of light in	water ?		
	(A)	2.25×10^8 m	/sec		(B)	4×1	10^8 m/sec $\times 10^8$ m/sec			
	(C)	1.5×10^8 m/	sec		(D)	2.67	$\times 10^8$ m/sec			
47.	In a	three-hinged	arch, the	Bending N	1oment	t will	be zero at:			
		Right Hinge					Hinge Only			
	(C)	Both Right a	- F		and the second s	All	the three Hinge	es		
48.	Mar 21 k	noj can comple cmph and secc	te a jour nd half	ney in 10 ho	ours. F	He tra	vels first half of eed of 24 kmph	f the jou n. Find	the total jour	peed of mey :
	(A)	230 km	(B)	234 km		. (C)	220 km	(D)	224 km	No. of the last of
49.	The	characteristic	equation	of Gases	PV = nF	RT ho	lds good for:			
	(A)	Monoatomic			(B)		tomic Gases			
	(e)	Ideal Gases			(D)	Rea	l Gases		*	
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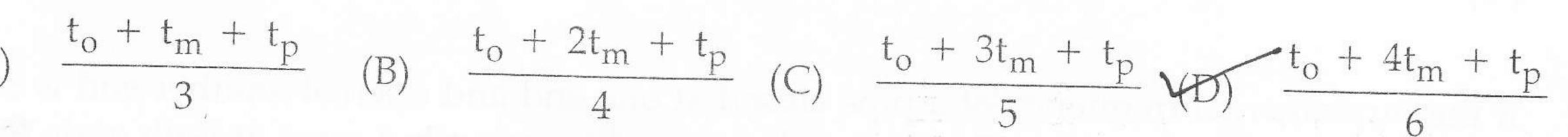
- 50. The value of $\Sigma \frac{dQ}{T}$ for an irreversible process is :
 - Less than zero

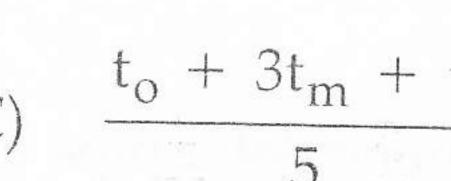
Greater than zero

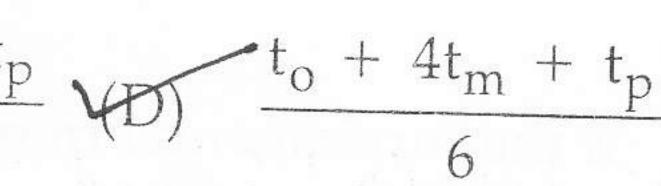
Equal to zero

- Any one of these
- 51. If t_o, t_m and t_p are the optimistic; most likely and pessimistic time estimates of an activity respectively; then the expected time 't' of the activity will be:

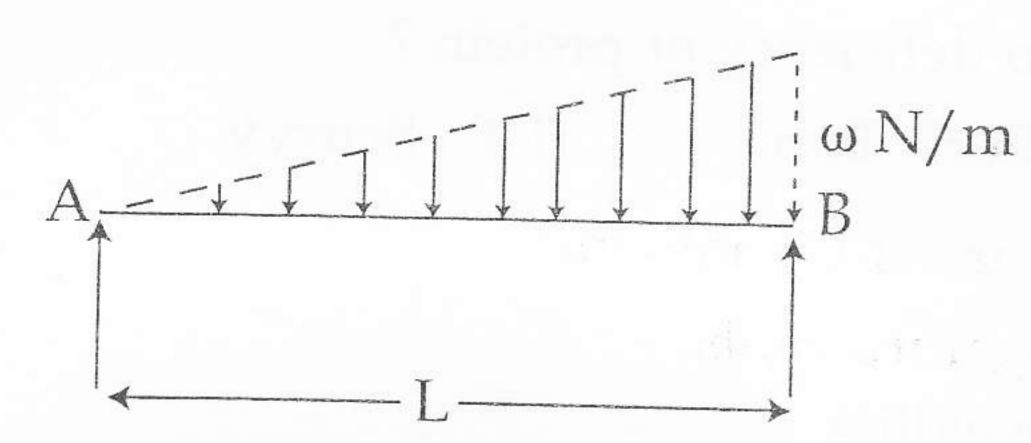
$$(A) \quad \frac{t_o + t_m + t_p}{3}$$







A simply supported beam carries a varying load from zero at one end to ω N/m at the other end (as under).



The length of the beam is L. The shear force will be zero at a distance 'x' from A. Find 'x':

- Welding Generators do have:
 - Delta winding

Wave winding

Lap winding

- Duplex winding
- To obtain the P-type semiconductor:
 - A pentavalent Impurity is added (B)
- A trivalent Impurity is added

Both are added

- None of these
- Kunwar Singh, a prominent leader of Uprising of 1857, belonged to:
 - Punjab

- Rajasthan
- Madhya Pradesh
- Bihar
- Primary Storage, in computer terminology, refers to:
 - Hard Disc Drive
 - Random Access Memory (RAM)
 - Read Only Memory (ROM)
 - The storage device where the operating system is stored

57.	Palitana Temples are located n	ear:		
	(A) Bhavnagar, Gujarat	(B)	Ujjain, Madhya Prad	desh
	(C) Nasik, Maharashtra	(D)	Varanasi, Uttar Prac	desh
58.	Which one of the following is a	an advantage of	f Forging?	
	(A) Improved Physical Prope	erty (B)	Close Tolerance	
	(C) Low Tooling Cost	(D)	Good Surface Finish	
59.	The fundamental frequency of	A A		
	(A) 1024 Hz (B) 64	Hz ((C) 256 Hz	(D) 128 Hz
60.	Which one of the following dis-	eases is caused	due to deficiency of	protein?
•	(A) Kwashiorkor (B) Rie	ckets	(C) Beri - Beri	(D) Scurvy
61.	Filler Metal is used in:			
	(A) Seam welding	(B) S	Spot welding Gas welding	
	(C) Projection welding	(D) (Gas welding	
62.	The Air-Fuel ratio of the Petrol	Engine is contr	colled by:	
	(A) Carburettor (B) Inj	jector ((C) Governor	(D) Fuel Pump
	Which one of the following is season?			
	(A) $Ca_3(PO_4)_2$ (B) Na	a_3PO_4	(C) KC1	(D) KI
64.	What are the advantages of DC	transmission	system over AC tran	nsmission system ?
	(A) There is no skin effect in	DC system		
	(B) Corona limits are highest		s as compared to AC	circuits
	(C) DC system is economical			
	(D) All of the above			
65.	The fatigue life of a part can be	improved by:		
	(A) Electroplating (B) Po	lishing	(C) Coating	(D) Shot peening
66.	Earthworm belongs to following			
	(A) Porifera (B) Ar	nnelida	(C) Mollusca	(D) Arthropoda
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67.	The property of a soil, which perr (A) Moisture content (C) Permeability	nits water (B) (D)	to perco Capilla None c	arity	it, is ca	lled:	
68.	To close a presentation and quit F (A) menu bar	owerPoin	t, one mu		close bu	tton on the:	
	(C) standard tool bar	(D)		n tasks tool	bar		
69.	Which one of the following place Bhoodan Movement?	es was ass	sociated 1	with the beg	inning	of Vinoba Bhar	ve's
	(A) Dandi (B) Khed	a	(C) P	ochampalli	(D)	Champaran	
70.	Jitu Rai won Gold Medal in the re	cent Asian	Games i	in the follow	ing field	1:	
	(A) Archery (B) Wrest	tling	(C) B	oxing	(D)	Shooting	
71.	A train, 270 metres long, is runn which is running at the speed of 80 What is the length of another train	kmph in o	speed o	f 120 kmph. direction on	It cro parallel	sses another tra track, in 9 secor	ain, ıds.
`	(A) 230 metres (B) 100 m	netres	(C) 25	50 metres	(D)	330 metres	
72.	The Height, Width and Depth of Orthographic projection views?	an object	can be s	hown with a	a minin	num of how ma	any
	(A) Six (B) Three		(C) T	WO	(D)	Four	
73.	Which one of the following is not	a prime nı	ımber ?				
	(A) 71 \(\B\) 91		(C) 61		(D)	31	
74.	The average of six numbers is 3.9 average of next two numbers is 3.8 (A) 4.6 (B) 4.7	35, then fir	average average average (C) 4.	erage of the	remain	ers is 3.40 and ing two number 4.5	the rs.
75.	The word function that corrects tex	kt as we ty					
	(A) Auto insert (C) Auto summarize	(B)	Auto co			*:	
	(C) Auto summarize	(D)	Track cl	nanges			
76.	Microsoft Windows is a/an:						
	(A) Word-processing program	(B)	Databas	e program			
	(C) Operating system	(D)	Graphic	s program			

77.	7. Stiffners are used in a Plate Girder to:	
	(A) Avoid buckling of web plate (B) Red	uce the shear stress
	(C) Reduce the compressive stress (D) Take	e the bearing stress
78.	vertical plane, then the sectional view of the objec	t is obtained in :
	(A) Front view (B) Left side view (C)	Right side view (D) Top view
79.	Atoms of the elements belonging to the same grou	
*	()	e number of neutrons
	(C) Same number of electrons (D) Sam	e number of electrons in the valence shel
80.). Which of the following rational relation operation	s in 'C' means "not equal to"?
	(A) # (B) = =	(D) <=
81.	1. Find the missing term of the following series:	
	1, 3, 3, 6, 7, 9, 13,, 21	
	(A) 14 (B) 12 (C)	11 (D) 10
82.	2. For an Ideal Gas, the change in Enthalpy (ΔH) for is given by: (where C_p = Heat capacity at Constant Pressure;	
	(A) $C_v \cdot \Delta T$ (B) $\frac{C_p}{C_v} \cdot \Delta T$ (C)	$\frac{C_{\rm V}}{C_{\rm p}} \cdot \Delta T$ $C_{\rm p} \cdot \Delta T$
83.	3. If $\log_{10} 7 = x$, then the value of $\log_{10} \left(\frac{1}{70}\right)$ is equal	l to:
		γ 1
	(A) $-(1+x)$ (B) $(1+x)^{-1}$ (C)	$\frac{x}{10} \qquad (D) \frac{1}{10x}$
84.	4. Who is the Chairman of Rajya Sabha? (As on 0	1.11.2014)
	(A) Sumitra Mahajan (B) Har	nid Ansari
		mbi Durai
85.	5. Identify the Mughal Emperor who gave permission factory at Surat:	on to East India Company to establish the
	(A) Akbar (B) Jahangir (C)	Shahjahan (D) Aurangzeb
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N .

1	T.
1	3
	7

numbers:

23

86.	What was the overall voting percentage in the recently held General Elections fo $16^{\rm th}$ Lok Sabha ?
	(A) About 60% (B) About 55% (C) About 66% (D) About 78%
87.	The perimeter of a square 'S' and perimeter of an equilateral triangle 'T' are equal. If the diagonal of this square 'S' is $12\sqrt{2}$ cm, then find the area of this equilateral triangle 'T'.
	(A) $48\sqrt{3}$ cm ² (B) $64\sqrt{3}$ cm ² (C) $24\sqrt{2}$ cm ² (D) $24\sqrt{3}$ cm ²
88.	The measurement of the speed of a rotating shaft by means of an electric tachometer is a: (A) Direct Measurement (B) Secondary Measurement (C) Tertiary Measurement (D) All of these
89.	Sardar Patel was born on October 31, 1875. His birth anniversary on October 31, this yea was observed as:
	(A) Rashtriya Ekta Diwas (National Unity Day)
	(B) Anti-Corruption Day
	(C) Anti Communal Day
	(D) Swachh Bharat Day (Clean India Day)
90.	As per Census, 2011. What is the Sex Ratio (i.e. No. of Females per 1000 Males) of India?
	(A) 914 (B) 923 (C) 940 (D) 956
91.	If 15% of x % of $582 = 17.46$, then find the value of 'x':
	(A) 2 (B) 10 (C) 15 (D) 20
92.	A shopkeeper purchased 100 oranges for ₹ 350 and then sold these oranges at the rate o ₹ 48 per dozen. What is his percentage profit ?
	(A) $12\frac{1}{2}\%$ (B) $14\frac{2}{7}\%$ (C) $10\frac{1}{2}\%$ (D) 15%
93.	The distance between C.G. of compression and C.G. of Tension Flanges of a Plate Girder i known as :
	(A) Clear depth (B) Effective depth (C) Overall depth (D) None of these

The sum of the squares of three consecutive odd numbers is 2531. Find these three odd

(A) 21, 23, 25 (B) 25, 27, 29 (C) 27, 29, 31 (D) 23, 25, 27

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95.	Find	63% of $3\frac{4}{7}$:							
	(A)	2.25	(B)	2.40		(C)	2.50	(D)	2.75
96.		r Diode is a:							
	(A)	Reverse biased	diode		(B)	Forv	vard biased die	ode	
	(C)	Variable voltag	e sour	ce	(D)	Con	stant current s	ource	
97.		certain code lang	and the same of th						is old' and '378'
-	(A)	5	(B)	3		(C)	7	(D)	2
98.	If the	e diameter of a v	vire is	halved, i	ts currer	nt carr	ying capacity v	will beco	me:
	(A)	One-fourth	(B)	Half		(C)	Twice	(D)	Four Times
99.		e electron in hyd f the emitted rad			1900				en the wavelengt
	(A)	$\lambda = \frac{R}{6}$	(B)	$\lambda = \frac{R}{5}$		(C)	$\lambda = \frac{36}{5R}$	(D)	$\lambda = \frac{5R}{36}$
100.		the angle betwe is 40 minutes pa	st 3 ?						the time is 03:4
		120°	(B)	125°		40)	130°	(D)	135°
	as	error.							ative) are classifie
	(A)	Hysteresis	(B)	Randor	n	(C)	Interaction	(D)	Systematic
102.	Find	the value of:							
	(489	$(489)^2 - (489)^2$	- 375	$(5)^2$					
1	***************************************	(489×375)							
	(A)	144	(B)	864		(C)	2	(D)	4
103.	Whic	ch one of the foll	owing	blood gr	roup is c	conside	ered Universal	Donor ?	*
	(A)	ch one of the foll AB	(B)	0	1	(C)	A	(D)	В

104. The MOSFET switch in its on-state may be considered equivalent to:

(B) Capacitor (C) Inductor

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(A) Resistor

25

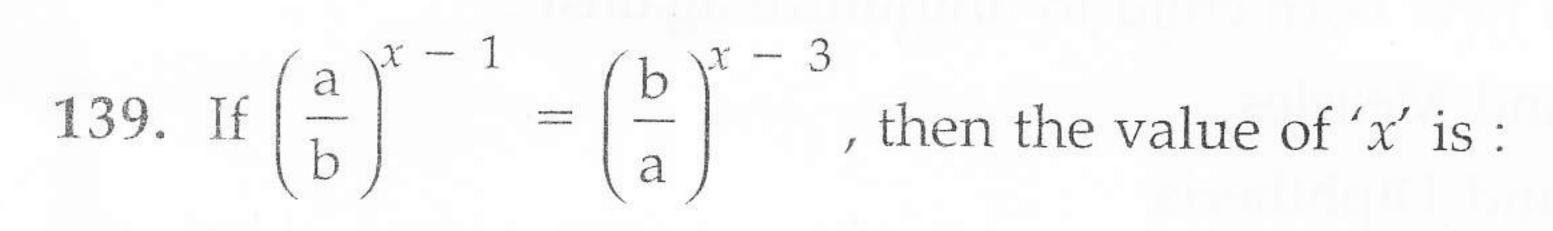
105	1+ 1	Mac and L	_ 1 .	. 1		N/SC					
100.	ALP	resent,	who is	the (Lhief Justic	e of Ind	ia?	(As on 01.11.20	114)		
	(1)	JUSTICE	e H.L. 1	Jattu		(B)		astice R.M. Lodi			
	(C)	Justice	P. Sat	hashiv	vam	(D		istice A. Kabir			
106.	The	losses in	n a tran	sform	er are :						
) Eddy (urrent 1	OSS	(iii) Hyste			
	The o	constan	t power	loss	of a transf	ormer is	aire	(iii) Hyste	resis los	S	
	(A)	(i) only	7	(B	v a series and a s		8100				
		*		(~) (11) 0111	y	((iii) only	14	(ii) and (iii) only
107.	The r	nain pr	inciple	of sur	veying is t	1	c				
	(A)	Part to	whole	or sur	veying is t	o work	Name of the last o				
					ver Level	(b)		hole to part			
	(-)	11181161	Level I	O LOV	ver Level	(D)	Lo	wer Level to Hi	gher Le	evel	
108	Tnoc	in also T) - · · · ·	1 70							
LUU.	nermi	ssible s	trace in	ed Be	eam, if the	permis	sible	stress in concr	ete reac	ches earlier t	than the
	(Th)				the beam	section i	S Cal	iea:			
					ection	(B)	Eco	onomic Section			
	(-)	Cinical	Section	1		VDT	Ov	er Reinforced S	ection		
109.	In Boo	olean A	lgebra,	A+A-	+A++	A is the	sam	eas:			
((A)	Zero		\(B)	A		(C)				
	300						(C)	nA	(D)	An	
110. I	If a sys	stem in	eauilib	rium i	is subjected	1 to a al-					
t	the equ	ailibriu	m shifts	sina	direction th	a to a cn	ange	of concentration of concentration	n; temp	erature or pi	ressure,
i	s kno	um as:				iai icina	, to t	muo me errect c	of the ch	ange impose	ed. This
4	ATI	Le Chat	elier's I	rincir	ole	(B)	Tan	v of Mass Action			
(Waals					ne of these	I 1		
					r		TAOI	le of these			
111. I	n a tra	ansform	er, elec	trical	normor ic	tuon of o	1 .				
C	hange	-in:		- CIICUI	power is	transferr	ea n	rom one circuit	to anot	her circuit v	vithout
4	/	requen	CV	(B)	Voltage		(0)				
		1	-)		vonage		(C)	Current	(D)	All of these	2
112. T	he He	adquar	tore of	Carth		1 70 41					
()	4) K	alkata	ters or					is Located at:			
(2	1) 1	olkata		(B)	Nagpur		(C)	Secunderabad	YADT	Bilaspur	
112 C.											
LIJ. E	xpress	10n + -	t is eq	uivale	ent in 'C' to $i = i + 2$):					- P
	1 =	= l + 1		(B)	i = i + 2		(C)	i = 2i	(D)	None of the	250
											200
14. W	hiche	xtentio	n is giv	ren to	word doci	ument b	y de:	fault ?			
1 CA	D	OC			COM		(C)	EXT	(T)	NIO CII	
				or % =			(-)		(\mathcal{L})	None of the	ese

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115. If $3x + 7 = x^2 + p = 7x + 5$, then the value of	'p' will be :
(A) $\frac{1}{2}$ (B) $8\frac{1}{2}$	
116. The value of the binary 11111 is:	
(A) $2^4 - 1$ (B) 2^4	(C) 2^5 (D) 2^5-1
117. The speed of a boat in downstream direction 8 km/hour. Find the speed of this boat in	Still Water:
(A) 22 km/hour (B) 6 km/hour	(C) 3 km/hour (D) 11 km/hour
 118. For a PN Junction, when the N-side is more (A) Forward Biased and a large current e (B) Forward Biased and a small current e (C) Reverse Biased and a large current ex (D) Reverse Biased and a small current ex 	exists exists ists
• • • • • • • • • • • • • • • • • • •	ISTS
119. Four wires of same material, same cross section parallel, give effective resistance of 0.25 of then the effective resistance will be: (A) 4 ohm (B) 1 ohm	ction area and the same length, when connected the same of these four wires are connected in series (C) 2 ohm (D) 0.50 ohm
120. The number of chromosomes in a normal hu	1man had11.
(A) 43 (B) 44	(C) 45 (D) 46
121. Find the distance of object from a concave meal image is four times the size of the object	irror of focal length 10 cm so that the size of its
(A) 7.5 cm (B) 5 cm	(C) 2.5 cm (D) 12.5 cm
122. Chain surveying is well adopted for: (A) Small areas in open ground (B) (C) Small areas with crowded details (D)	Large areas with simple details Large areas with difficult details
123. The ruler of which of the following States was pretext of misgovernance?	as removed from power by the British on the
(A) Awadh (B) Jhansi	(C) Satara (D) Nagpur
124. Who is the Chief Minister of Haryana? (As (A) Manohar Lal Khattar (B) (C) Om Prakash Chautala (D)	on 01.11.2014) Sushma Swaraj Bhupendra Singh Hooda

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125. P	Power Factor of the following circuit will be un	nity:
(.		Resistance
	(C) Capacitance (D) I	nductance and Capacitance
126. S	Schmitt trigger is used for:	There is a the level of the cianal
	(A) Voltage to frequency conversion (B) (C) Squaring a wave (D) I	None of these
127. V	Which one of the following is renewable resou	irce ?
	(A) Coal (B) Petroleum ((C) Natural Gas (D) Wind
f	Shanti Swarup Bhatnagar Award is given for field:	
V	(A) Science (B) Literature	(C) Economy (D) Performing Arts
	()	temperature is due to difference in their : Thickness Elastic properties
	Triple Vaccine is administered to a new born	
	(A) Whooping Cough, Tetanus and Measles (B) Whooping Cough, Tetanus and Diphthe	eria
\$ \$\frac{1}{2}\frac{1}	(C) Tetanus, Diphtheria and Small pox	
	(D) Tetanus, Typhoid and Hepatitis	
131.	1	putting a space craft into the Martian Orbit on
	(A) Russia (B) China	(E) India (D) USA
	Pipe 'P' can fill a tank in 10 hours and Pipe empty the full tank in 20 hours. If all the the how much time this tank will be filled?	'Q' can fill this tank in 12 hours. Pipe 'R' can ree pipes are operated simultaneoulsy, then in
	(A) 7 hours (B) $7\frac{1}{2}$ hours	(C) 8 hours (D) $8\frac{1}{2}$ hours
133.	T: 1 11 (11 in made na ala	length of a diagonal of this rectangle is 17cm.
	(A) 240 cm^2 (B) 529 cm^2	(C) 289 cm^2 (D) 120 cm^2
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134.	Find the value of 10	C_3 :					
	(A) 720	(B)	240	40)	120	(D)	1000
135.	will tran Machine Language	nslate th	e complete pr	ogram at	once from a Hig	h Lev	el Language to the
	(A) Compiler	(B)	Joy stick	(C)	Ports	(D)	Light pen
136.	Which one of the fo	llowing	has the dimer	nsions of	pressure ?		
	(A) MLT-2	(B)	$ML^{-1}T^{-2}$	(C)		(D)	$ML^{-1}T^{-1}$
137.	If whole Circle Bear	ing of a	line is 120°, th	nen its R	educed Bearing is	S :	
	(A) S 20°E	(B)	S 60°E		N 120°E	99010000000 90	N 60°E
	Ravi spends $\frac{2}{5}$ of hi Conveyance. After						\sim
	(A) ₹ 8000		₹ 3200				₹ 1000



140. The relationship between void ratio 'e' and porosity ratio 'n' for a given soil mass is:

- (A) $n = \frac{1+e}{1-e}$ (B) $e = \frac{1+n}{1-e}$ (C) e = n(1+e) (D) $n = \frac{1-e}{e}$

141. Jarawas and Shompens Tribal Groups live in:

- (A) Andaman and Nicobar Islands (B) Chhattisgarh

Jharkhand

Madhya Pradesh

142. Sampling Theorem finds application in:

- Amplitude Modulation
- Frequency Modulation
- Pulse Code Modulation
- None of these

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143. Find the work done when a force $\overrightarrow{F} = (\overrightarrow{i} + 2\overrightarrow{j} + 3\overrightarrow{k}) N$ acting on a particle takes it from

the point $\vec{r}_1 = \begin{pmatrix} \vec{j} & \vec{j} + \vec{k} \end{pmatrix}$ m to the point $\vec{r}_2 = \begin{pmatrix} \vec{j} & \vec{j} + 2\vec{k} \end{pmatrix}$ m.

- 144. Where was the First Session of Indian National Congress held in 1885 A.D.? (A) Delhi (B) Calcutta (C) Bombay (D) Surat

- 145. Identify the cyclone which caused large scale destructions in Vishakhapatnam this year in October? (B) Katrina (C) Hudhud (D) Nilofar
 - (A) Phailin

- 146. The most ideal disinfectant used for drinking water is:

 - (A) Alum (B) Chlorine (C) Lime
- Nitrogen
- 147. Which of the following cycles is used in thermal power plants?
 - (A) Rankine
- Carnot
- Otto
- Joule
- 148. The length of a line measured with 20 m chain is found to be 400 m. If the actual length of the chain is 20.05 m, then the true length of the line is:
 - 400.50 m
- (B) 401.50 m
- (C) 402.50 m

- 149. Find the value of $(0.000216)^{\frac{1}{3}}$:
- 0.006
- 0.0006

- 150. Age of a Tree may be ascertained by:
 - Radius of its Stem
- Number of Annual Rings.
- Number of Branches
- Circumference of its Stem