RRB Secunderabad

Junior Engineers Examination

Held on: 14.12.2014

14

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					NGL					
1.	Whe	n we open an int World Wide We		site, we see	'wwv		What is the full d Wide Word	form of	'www' ?	
	(C)	Words Wise We	eb		(D)	None	e of these			
2.	60 k	length of two tr m/h and 40 km/ in which they w	h res	pectively in	oppo		•	-		
	(A)	10 sec	(B)	10.8 sec		(C)	9 sec	(D)	9.6 sec	
3.	Tran (A) (C)	nsformer cores are Minimise eddy Simplify its con	currer	it loss	der to (B) (D)	Redu	ice cost e of these			
4.	Strai (A) (B) (C) (D)	in Gauge is used Force into displ Mechanical disp Electric current Sound Energy i	aceme placem into l	ent nent into ch Mechanical	displa					
5.	If ar (A) (C)	Infront of V.P., Infront of V.P.,	Above	e H.P.	(B)	Behi	respect to refe nd V.P., Above nd V.P., Below	H.P.	anes will be :	
6.	The	speed of sound is	n air is	approxima	ately e	qual t	o:		*	
	(A)	3×108 m/sec	(B)	330 m/se	c	(C)	5000 m/sec	(D)	1500 m/sec	
7.	com	en Ram and Moh aplete this work k?		-	-	-				
	(A)	10 days	(B)	8 days		(C)	6 days	(D)	16 days	
8.	Whi	ich of the followir	ng is a	prime num	nber ?					
	(A)	33	(B)	87		(C)	93	(D)	97	
9.		the missing tern		e following	series	:				
		, 27, 16, <u>?</u> , 36, 25		216		(C)	64	(D)	125	

10.	Whic	ch country won	the FIF	A world cu	ip, 201	14 in 1	Football ?				
	(A)	Germany	(B)	Argentina		(C)	Brazil	(D)	France	:	
		192									
11.	The s	slenderness ratio	of a c	ompression	meml	er is	:				
		Effective le	ength			Α	ctual length				
	(A)	Least radius of		on .	(B)	_	ment of inertia	· 3			
			0)								
	(C)	Moment of ine			(D)		ctual length	_			
	(C)	Actual lengt	th		(D)	Rad	ius of gyratior	ı			
12.	Who	is the speaker	of pres	ent Lok Sab	ha?	(As o	n 01.11.2014)				
	(A)	Smt. Sumitra	Mahaja	n	(B)	Smt.	Sushma Swa	raj			
	(C)	Smt. Meira Ku	ımar		(D)	Non	e of these				
								•			
13.		value of binary	1111 is								
	(A)	2^3	(B)	$2^3 - 1$		(C)	24	(D)	$2^4 - 1$		
14.	Who	is the winner o		Singles Tit							
	(A)	Roger Federer			(B)		Nishikori				
	(C)	Marin Cilic			(D)	Rafa	ael Nadal				
										Ct. T	
15.		hich of the follo	owing i	novement o	aid Ga	indhij	i make the firs	st use of	Hunger	Strike as	a
	(A)	Ahmedabad s	trike, 1	918	(B)	Row	vlatt Satyagra	ha, 1919			
	(C)	Swadeshi Mo	vement	, 1905	(D)	Cha	mparan Satya	agraha,	1917		
							, T				
16.	Who	wrote the boo	k "Not	Just An Ac	counta	ant" p	oublished recei	ntly?			
	(A)	P.C. Parakh			(B)	San	jay Baru				
	(C)	Vinod Rai			(D)	Nat	war Singh			1.07	
,					degradan m		1	120	100	W 1923 132754	
17.		length of a bar i in produced in			ids by	2 mm	when a tensil	e force F	is applie	d. Find th	e

18. A four stroke petrol engine theoretically operates on :

(A) Joule cycle

(B) Otto cycle

(C) Brayton cycle

(D) Bell coleman cycle

					1/2	
19.	Find	the	value	of	$(2744)^3$	

(A)	24
` '	

(A)
$$\frac{yd}{x}$$

(B)
$$\frac{xd}{y}$$

(C)
$$\frac{xy}{d}$$

(D)
$$\frac{d}{xy}$$

One side of a rectangular field is 15 metres. The length of diagonal of this rectangular field is 22. 17 metres. Find the area of this rectangular field.

(B)
$$60 \text{ m}^2$$
 (C) 255 m^2 (D) $144 \frac{1}{2} \text{ m}^2$

'When a body is wholly or partially, immersed in a fluid, it experiences an upthrust equal to 23. the weight of the fluid displaced'. This is known as:

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

(B)
$$\frac{t_o + t_p + 3t_m}{5}$$

$$(C) \quad \frac{t_o + t_p + 2t_m}{4}$$

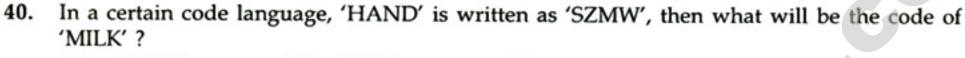
(D)
$$\frac{t_o + t_p + 4t_m}{6}$$

27. Find the value of
$$\frac{(768)^3 + (232)^3}{(768)^2 - (768 \times 232) + (232)^2}$$
:

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28.	For p	erfectly elastic bo	dies,	the value of c	oeffi	cient	of restitution is:		
	(A)	zero	(B)	0.5		(C)	1.0	(D)	0.25
29.	If 1st	January, 2014 wa	as We	dnesday, ther	1 29t	h Dec	ember, 2014 will	be:	
		Thursday		Monday			Saturday	(D)	Friday
30.	The t	hermal diffusivity	y of a	substance is g	giver	by:			
	(A)	$\frac{K\rho}{C}$	(B)	$\frac{K}{\rho C}$		(C)	KC ρ	(D)	$\frac{\rho C}{K}$
	[Whe	ere K=Thermal c	onduc	etivity; $\rho = M$	ass (densit	ty; C = Specific		
31.	Whic	ch of the following	g is bi	iodegradable	pollı	ıtant '	? • •		
		DDT	(B)	внс		(C)	Cotton cloth	(D)	Mercury
32.		in is younger that	n Rah	ul by 4 years.	If t	heir a	ges are in the rat	tio of 7	7:9, then how old
		14 years	(B)	21 years		(C)	18 years	(D)	25 years
33.	Find	the value of (1+	2+3+	+4+		+45)	1:		
55.	(A)		(B)	2070		(C)	1035	(D)	1280
34.		n an object is cut onal view of the o	-		_	llel to	H.P. and perper	ndicul	ar to V.P., then the
		Top view	(B)	Front view		(C)	Left side view	(D)	Right side view
35.		pressure exerted	on t	the walls of	a co	ntain	er by a gas is d	ue to	the fact that Gas
	(A)	Stick to the wall	s of t	he container					
	(B)	Lose their kineti							
	(C)	Get accelerated	towar	ds the wall					
	(D)	Change their me	oment	tum due to co	llisio	on wi	th the wall.		
36.	Whi	ch National Park	is kno	own for the 'A	siat	ic Lio	ns' ?		
	(A)	Corbett Nationa	l Parl	k ((B)		na National Park		
	(C)	Bandipur Natio	nal Pa	ark (D)	Gir I	National Park		
37.	Sepa	aration of water o	r sand	d or cement fr	om	a fresi	hly mixed concre	te is k	cnown as :
	(A)		(B)			(C)		(D)	Flooding
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38.	The is:	relationship betw	een B	ulk density (γ), I	Ory d€	ensity (γ_d) and w	ater c	ontent (ω) for s	soil
	(A)	$\gamma = \gamma_d (1 + \omega)$	(B)	$\gamma_d = \gamma(1 + \omega)$	(C)	$\gamma = \frac{\gamma_{\rm d}}{1+\omega}$	(D)	$\gamma = \gamma_d (1 - \omega)$	
39.	Whic (A)	th one of the follow Voltmeter		instruments will Ammeter		ed for measuring Ohmmeter		ic current ? Wavemeter	5



- (A) ORNP (B) PNRO (C) NROP (D) RNOP
- 41. Find the simple interest on ₹ 4800 at the rate of 8½% per annum for a period of 2 years 3 months.
 - (A) ₹ 796 (B) ₹ 816 (C) ₹ 918 (D) ₹ 990
- 42. Choose the option which correctly shows the relationship between Modulus of Elasticity (E); Modulus of Rigidity (C) and Bulk Modulus (K):

(A)
$$E = \frac{KC}{K+C}$$
 (B) $E = \frac{2KC}{2K+C}$ (C) $E = \frac{9KC}{3K+C}$ (D) $E = \frac{3KC}{K+2C}$

- 43. The term 'Operating System' means:
 - (A) A set of programmes which controls computer working
 - (B) The way a computer operator works
 - (C) Conversion of high level language into machine level language
 - (D) None of these
- 44. Which of the following is not a cold working process?
 - (A) Extrusion (B) Slitting (C) Blanking (D) Lancing
- 45. The famous chinese pilgrim 'Hieun Tsang' visited India during the reign of :
 - (A) Harshavardhan (B) Chandragupta II
 - (C) Ashoka (D) Kanishka
- 46. The language which a computer can understand is :

 (A) High Level Language

 (B) Machine Language
 - (C) Assembly Language (D) All of these
- 47. The property of a material by which it can be rolled into sheets is called:
- (A) Elasticity (B) Plasticity (C) Ductility (D) Malleability

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48. Schmitt trigger is also known as:

	(A)	Sweep circuit		(B)	Blocki	ng oscillat	or		
	(C)	Squaring circuit		(D)	Stable	multi vibi	ator		
49.	A tri	ac is a :							
	(A)	Two terminal bi-	-directional swite	ch			,		
	(B)	Three terminal b	i-directional swi	itch			9		
	(C)	Two terminal ur	ni-directional sw	itch					
	(D)	Three terminal u	ıni-directional sv	witch					
50	Cycl	o converter conve	rte ·						
50.	(A)	AC to DC	113.						
	(B)	DC to AC							
	(C)	A fixed AC to a	variable magnit	ude A	C ' ''				1
	(D)	A fixed DC to a	_						
	(D)	A fixed De to u	variable magnit					- 25	
51.	Whi	ch one of the follo	wing is not a sc	alar qu	antity	?			
J	(A)	Volume	(B) Mass	1		Force · · ·	i (D)	Length	
	()	· oranic	(=)				(
52.	In a	well conditioned	triangle, no angl	e shou	ld be l	ess than :		·.·	
J		60°	(B) 50°		(C)		(D)	45°	
	()		(2)				` '		
53.	The	reduced bearing o	of a line is N 87°	W. Its	whole	circle bear	ing is:		
		273°	(B) 3°		(C)	93° · · ·	(D)	87°	
					٠		eig in		
54.	The	resultant of two f	orces P and Q ac	cting a	t an an	gle θ, is gi	ven by:		
								2 ° '	
		$\sqrt{P^2+Q^2+2PQ}$	tanθ	(D)	V12-4	+Q ² +2PQ	sine		
	(C)	$\sqrt{P^2 + Q^2 + 2PQ}$	cosA	(D)	P+O	+2PO tan	θ		•
	(0)	VI +Q +21Q					-1,		
	Duin	nary storage in co	mouter terminal	0011:10	fore to				
55.				ogy 1e	1615 10		* * * * * * * * * * * * * * * * * * * *		
		Hard Disc Drive		`					
		Random Access	• •	,					
		Read Only Men	ice where the op	ioratin	a evete	m is stored		tu i salah ke interio	
	(D)	The storage dev	ice where the op		gayate		11111		
E6	In a	n examination, a			for eve	ery correct	answer at	nd loses 1 m	ark for
56.	eve	ry wrong answer.	If he attempts in	n all 60	guesti	ions and se	cures 130	marks, then f	ind the
		ber of questions						17.71	
		42					(D)	38	
			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		90 %				001114
								190	001114

- 57. The Fundamental Duties of the Indian citizens are incorporated in the following Article of our constitution?
 - (A) Article 21 A
- (B) Article 51 A
- (C) Article 370 A
- (D) Article 19 A

- 58. If $\frac{x}{y} = \frac{6}{5}$, then find the value of $\frac{x^2 + y^2}{x^2 y^2}$:
 - (A) 11
- (B) $\frac{61}{11}$
- (C) $\frac{11}{5}$
- (D) 6
- 59. Which device changes the alternating e.m.f. generated by the D.C. Generator in its armature coil to D.C.?
 - (A) Slip ring
- (B) Rectifier
- (C) Commutator
- (D) None of these
- 60. A simply supported beam of length L is loaded with a uniformly distributed load of ω per unit length. The maximum bending moment will be :
 - (A) $\frac{\omega L^2}{4}$
- (B) $\frac{\omega L^2}{8}$
- (C) $\frac{\omega L^2}{2}$
- (D) ωL²

- 61. Jama Masjid at Delhi was built by :
 - (A) Akbar
- (B) Jahangir
- (C) Shah Jahan
- (D) Aurangzeb
- 62. Arrange the fractions $\frac{3}{5}$, $\frac{4}{7}$, $\frac{8}{9}$ and $\frac{9}{11}$ in their descending order :
 - (A) $\frac{8}{9} > \frac{9}{11} > \frac{3}{5} > \frac{4}{7}$
- (B) $\frac{9}{11} > \frac{8}{9} > \frac{4}{7} > \frac{3}{5}$
- (C) $\frac{3}{5} > \frac{4}{7} > \frac{8}{9} > \frac{9}{11}$
- (D) $\frac{4}{7} > \frac{8}{9} > \frac{3}{5} > \frac{9}{11}$
- 63. Find the average of all prime numbers between 30 and 50:
 - (A) 48
- (B) 39
- (C) 39.8
- (D) 38

- **64.** A cyclotron is a:
 - (A) Bunch of Gamma Rays
- (B) High Frequency Oscillator
- (C) Particle Accelerator
- (D) None of these
- 65. Who is the winner of Nobel Prize, 2014 in the field of Economics?
 - (A) Patrick Modiane
- (B) Malala Yousafzai

(C) Jean Tirole

(D) Kailash Satyarthi

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66.	The	Indian Standard	Time	(I.S.T.) is ahead o	f Gree	enwich Mean Tin	ne (G.1	M.T.) by :
	(A)	6 hours		(B)	5 ho	urs		0.150
	(C)	6 hours 30 minu	ıtes	(D)	5 ho	urs 30 minutes		
67.		ch of the followin		cesses is generally	used	for mass produc	tion of	f connecting rod of
	(A)	Sand Casting	(B)	Cold Heading	(C)	Forging	(D)	Spinning
68.	The	load which does	not ch	ange its magnitu	de an	d position with t	ime is	called:
	(A)	Live load	(B)	Dynamic load		Creep load	(D)	Dead load
69.	A by	te is group of :						
	(A)	2 bits	(B)	4 bits	(C)	8 bits	(D)	16 bits
		2						
70.	If lo	$g_8 x = \frac{2}{3}$, then the	e valu	ie of 'x' is:				
	(A)	16 3	(B)	$\frac{4}{3}$	(C)	12	(D)	4
71.		will transl	ate the	e complete progra	imme	at once from a h	igh lev	vel language to the
	(A)	Compiler	(B)	Assembler	(C)	Joystick	(D)	Bus
72.	Pipe are o	'P' can fill a tank pened simultane	in 36 l ously,	hours and pipe 'Q then how much	can time v	fill this tank in 45 vill be taken to fi	hours	s. If both the pipes tank ?
	(A)	20 hours	(B)	$40\frac{1}{2}$ hours	(C)	9 hours	(D)	42 hours
73.	Find	out the term whi	ch is	different from oth	or tor	me in the follows	ina.	
75.		3, 66, 99, 121, 27		different from oth	ier ter	ins in the follow	ing:	
	(A)		(B)	121	(C)	279	(D)	594
74.	A CI	RO can display :						17 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(A)	D.C. signals onl	v	(B)	A.C.	signals only		
	(C)	Both D.C. and A	•			e - invariant signa	als	
75.	The	Ouit India Move	ment	was launched in	the r	oar ·		
75.				1930 A.D.	_		(D)	1946 A.D.

76.		thin rectangue, its top vie			30 mm	is inc	lined at an an	gle of 60	o to the Horizont	tal
	(A)	Square of 3	30 mm size	:						
	(B)	Square of 6	60 mm size	:						
	(C)	Rectangle of	of 60 mm >	45 mm siz	æ					
	(D)	Rectangle of	of 45 mm >	30 mm siz	æ					
77.	A fil		ntains tran	sient data	to be p	oroces	sed in combin	nation wi	th a master file	is
	(A)	Sequential	file		(B)	Mast	ter file			
	(C)	Random of	rganization	n file	(D)	Tran	smission file			
78.		the missing		_	series	:		0		
	(A)	HWG	(B)	HUG		(C)	WHG	(D)	GUH	
79.	Who	is the Presi	dent of Ch	nina ? (As	on 01.1	1.201	4)			
		Li Keqiang	·				Shinzo Abe	(D)	Hu Jintao	
80.	Zoro	th I aw of the	hermodyns	amics forms	s the h	asis o	f 1	measurer	nent	
00.		Pressure	•					(D)	Momentum	
81.	Who	wrote 'Indi	ica'?							
	(A)	Kautilya	(B)	Kalidasa		(C)	Shudraka	(D)	Megasthenes	
82.	Red	rot is a plan	t disease v	vlich affect	s:					
		Wheat	(B)	Rice		(C)	Sugarcane	(D)	Cotton	
83.	Whi	ich one of the	e following	s is also kno	own as	Red 1	Planet ?			
		Mercury	_				Earth	(D)	Mars	
84.		the angle bors i.e. 25 mir			and th	e min	ute hand of a	clock wh	en the time is 10.	.25
	(A)	180°	(B)	165°	•	(C)	$162\frac{1}{2}^{\circ}$	(D)	152 1°	
85.	Whi	ich of the fol	lowing An	nplifiers pro	oduces	the le	ast distortion	?		
55.		Class A		Class B		(C)	Class AB	(D)	Class C	
Ter	0011	14		2.5						
ISL	TIOU	A.Z.								

86.	Wha	t is 15% of 34 kg	?						M
	(A)	3.4 kg	(B)	3.75 kg		(C)	4.50 kg	(D)	5.10 kg
87.	Who	is the Chief Min	ister o	of Tamil Na	du ? (As or	01.11.2014)		
	(A)	Mr. O. Panneers	selvan	n	(B)	Ms.	J. Jayalalitha	44 44	
	(C)	Mr. Karunanidh	ni		(D)	Mr.	Dayanidhi Mara	n	3,00
							20		
88.	Whic	ch of the followin	g is a	universal g	gate ?		34 9 34, 191		
	(A)	AND	(B)	NAND		(C)	OR	(D)	NOR
								11.0	199 =
89.	Who	is the Chairperso	on of	National C	ommis	sion f	for Women in In-	dia ?	(As on 01.11.2014)
	(A)	Jayanti Patnaik			(B)	Girij	a Vyas		
	(C)	Mamta Sharma			(D)	Lalit	ha Kumaraman	galam	
									141
90.	BOD	(Bio Chemical C	xyger	Demand)	of safe	drin	king water must	be:	
	(A)	0	(B)	50 ppm		(C)	100 ppm	(D)	200 ppm
	_						22 (0.40.00)	2555	Street and
91.		n examination, 35) he examination?		ne students	passed	d and	455 failed. How	many	students appeared
				1300		(C)	845	(D)	1250
	(A)	700	(B)	1300		(0)	2015 TOTAL 1	(D)	
92.	Poin	ting to a man in	a phot	tograph. As	sha sai	d. "H	is mother's only	daugh	nter is my mother"
		is that man rela	-	-		,		8-	,
	(A)	Brother	(B)	Maternal	Uncle	(C)	Grand father	(D)	Father
					*		pestulan (in		4 1 1 4 2
93.	Gale	na is an ore of :		(5)					
	(A)	Lead	(B)	Copper		(C)	Aluminium	. (D)	Iron
				-	1.				Sec. 12.
94.	Whi	ch of the followir		-					
	(A)	MS Windows	(B)	MS Word	l	(C)	MS Excel	(D)	MS PowerPoint
						/	rand Oto		7.5.
95.	Boyl	e's law states tha	t:						
	(A)	The pressure of						244	
	(B)				lume o	of a g	iven mass of a g	as is c	onstant at constan
	(6)	temperature i.e			.1				
	(C)		_		•		nperature at cons	_	* 1
	(D)	The pressure of	a gas	varies dire	ectly w	ith vo	olume at constan	temp	erature i.e. PαV.
06	147 1	d amattan is a f							
96.		d spatter is a/an					Wolding defeat		
	(A)	Flux	(D)	Electrode		(C)	welding defect	(D)	none of these

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97.	The	nucleus of an ato	4,5		ains :						
	(A)	Protons and Ne	utrons	3	(B)	Prote	ons and Electrons	;			
	(C)	Electrons and N	eutro	ns	(D)	Only	Neutrons				
98.	The brick		brick	are 10 cm×	4 cm	×3 cı	m. What is the t	otal s	urface area of thi		
	(A)	82 cm ²	(B)	164 cm ²		(C)	120 cm ²	(D)	180 cm ²		
99.		allet is fired verti ht reached by the						Wha	it is the maximum		
	(A)	1960 m	(B)	196 m		(C)	980 m	(D)	490 m		
100.		which of the follo	_	, the intrins	ic sem	i con	ductor Silicon be	doped	in order to obtain		
	(A)	Boron	(B)	Phosphoru	ıs	(C)	Gallium	(D)	None of these		
101.	Wate	er has its maximu	m der	nsity at :							
		0°C	(B)	100°C		(C)	50°C	(D)	4°C		
102.	Com	Compiler and interpreters are examples of :									
		System software				App	lication software				
	(C)	Both (A) and (B))		(D)	None	e of these				
103.	'Gide	dha' is a folk dan	re of ·				76				
200.	(A)	Punjab	(B)	Uttar Prad	esh	(C)	Assam	(D)	Maharashtra		
104	The	entropy of univer	se ten	ds to be:							
101.		Minimum		Zero		(C)	Average	(D)	Maximum		
						. ,		,			
105.	The angle of elevation of a ladder leaning against a wall is 60° i.e. ladder makes an angle of 60° with the ground. The foot of the ladder is 4.6 metres away from the wall. What is the length of this ladder?										
		9.2 m	(B)	2.3 m		(C)	6.9 m	(D)	7.8 m		
106.	The	total number of b	ones i	n the averag	ge adu	ılt hu	man skeleton is :				
		350	(B)	206		(C)	115	(D)	540		
107.	A 4	- pole, 1500 r.p.m	. alter	nator will g	enera	te e.m	of, at:				
			(B)	60 Hz	citera	(C)	40 Hz	(D)	50 Hz		
	` '		. /			(- /		(-,			
108.	Disir	nfection of drinkir	ng wa	ter is done t	o rem	ove:					
		Odour	(B)	Bacterias		(C)	Turbidity	(D)	Colour		
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109.		nductor of axial netic field of strer	0					it right angle to a
	(A)	10 N	(B)	12 N	(C)	1.2 N	(D)	0
110.	The I	Headquarters of \	West (Central Railway is	s loca	ted at :		
	(A)	Jabalpur	(B)	Jaipur	(C)	Allahabad	(D)	Ahmedabad
		11.0						
111.		ere second is the		of : Power	(C)	Voltage	(D)	Energy
	(A)	Charge	(B)	Towel	(C)	Voltage	(D)	Literay
112.	Find	the missing term	of the	following series	:			
	4, 7,	12,, 28, 39.				.		
	(A)	17	(B)	18	(C)	21	(D)	19
113	Iden	tify the city whicl	n face	d large scale dest	ructio	ns due to 'Hudhi	ıd' cv	clone recently ?
110.	(A)	Chennai	(B)	Vishakhapatnar		(C) Kolkata		Hyderabad
	à 6		, ,					0 100 100 10
114.		te in which all in	•					
	(A)	An inverter	(B)	AND gate	(C)	NOR gate	(D)	NAND gate
	Th.		ta1 :	winnels in 21 5	2	M7hat is the monit	matau	of this aquilatoral
115.	1	area or an equila	terai	mangle is 24\3 (:m	what is the peri	meter	of this equilateral
		96 cm	(B)	$4\sqrt{6}$ cm	(C)	12√6 cm	(D)	6√6 cm
					` ′			
116.	Glob	oal warming is car	used b	by:				
	(A)	N ₂	(B)	CO ₂	(C)	Ozone	(D)	None of these
	.			On alvia languara				
117.		and Moulding, the	(B)	Drag	: (C)	Check	(D)	Fillet
	(2.2)	Cope	(5)	2.ug	(0)		(-)	
118.	The	United Nations D	Day (U	J.N.Day) is celebr	ated e	very year on :		
	(A)	Dec 26	(B)	Nov 14	(C)	Sept 5	(D)	Oct 24
119	For	which of the follo	wing	applications, a D	C. m	otor is preferred o	over a	n A.C. motor ?
11).	(A)					speed operation		
	(C)		•		_	d speed operation		
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120.	Projection of an object shown by three views is known as:							
	(A)	Perspective	(B)	Oblique	(C)	Orthographic		

- 121. Fins are provided on heat transferring surface in order to increase :
 - Heat transfer area (A)
- (B) Heat transfer coefficient
- Temperature gradient (C)
- (D) Mechanical strength of the equipment
- 122. A transformer has 1000 primary turns. It is connected to 250 volts A.C. supply. Find the number of secondary turns to get secondary voltage of 400 volts.
 - (A) 1600
- (B) 625
- (C) 100
- 1250 (D)

(D) None of these

- 123. Find the L.C.M. of 148 and 185.
 - (A) 680
- 740
- 2960
- (D) 3700

- 124. What is the General formula of Alkanes?
- (C) C_nH_{2n-2}
- (D) $C_n H_{2n+4}$
- 125. The sum of two numbers is 40 and the difference of these two numbers is 4. Find the ratio of these two numbers.
 - (A) 11:9
- (B) 11:18
- (C) 22:9
- (D) 17:13

- 126. 'The Servants of India Society' was founded by :
 - (A) Jyotiba Phule (B) G.K. Gokhale
- (C) B.G. Tilak
- (D) B.R. Ambedkar

- **127.** Power Loss in a resistor is given by :
- (A) $P = V^2 R$ (B) $P = \frac{V}{I}$ (C) $P = \frac{I^2}{R}$
- 128. The pollutant responsible for ozone holes is :
 - (A) CO₂
- (B) CO
- (C) SO₂
- (D) CFC

129.	With	the formation of	Telar	igana, how many	State	s are there in our	coun	try now?
	(A)	30	(B)	29	(C)	28	(D)	31
130.	If 2 ²	$n^{-1} = \frac{1}{8^{n-3}}$, then	n the v	value of 'n' is :				
	(A)	3	(B)	2	(C)	0	(D)	-2
131.	Gout	tam Buddha deliv	ered l	nis first sermons a	it:	(4)		
	(A)	Kusinagar	(B)	Sarnath	(C)	Pataliputra	(D)	Vaishali
132.	Ravi	runs 200 metres i	n 24 s	seconds. Find his	avera	ige speed :	20.00	
	(A)	20 km/h	(B)	24 km/h	(C)	28.5 km/h	(D)	30 km/h
133.	How	many terms are	there	in the following s	eries	2		OF BEINGER
	201,	208, 215,, 30	69.					
	(A)	26	(B)	25	(C)	24	(D)	23
134.		point moves in a p nstant, the curve			t the s	um of its distance	es fron	n two fixed points
	(A)	Parabola	(B)	Ellipse	(C)	Hyperbola	(D)	All of these
		-2						
135.	Amr	nonia is prepared	comr	nercially by the :				1/.
	(A)	Oswald process	(B)	Hall process	(C)	Contact process	(D)	Haber process
136.	Loky	oriya Gopinath Ba	rdolo	i International Ai	rport	is located at :		
	(A)	Jaipur	(B)	Bangalore	(C)	Guwahati	(D)	Hyderabad
137.	The as:	elements which	have	same mass numl	oer bu	at different atom	ic nu	mbers are known
	(A)	Isotones	(B)	Isobars	(C)	Isotopes	(D)	Halogens
							-	TSD001114

138.	Which one of the following is not a Noble Gas?								
	(A)	Helium	(B)	Bromine		(C)	Argon	(D)	Neon
100	en r	vo 1 1:11	,						
139.	The b	BIS code which de	eals w	ith steel stri	ucture	S 1S :			
	(A)	BIS: 456	(B)	BIS: 800		(C)	BIS: 875	(D)	BIS: 1893
140.	To be	e eligible for electe	ed as	President, a	candi	date r	nust be :		
							30 years of age		
	(A)	•			(B)				
	(C)	Over 35 years of	age		(D)	Over	60 years of age		
141.	At w	hat temperature,	both	Celsius and	Fahre	nheit	scales will show	the id	lentical readings
	(A)	100°	(B)	0°		(C)	-40°	(D)	40°
	(2.1)	100	(5)			(-)		(-)	
142.	Time	constant of a ser	ies R-	L circuit is :					
				T					
	(A)	LR seconds	(B)	$\frac{L}{R}$ seconds		(C)	L ² R seconds	(D)	LR ² seconds
143.	A ca	pacitor stores 1 co	oulon	b at 10 volt	s. Its	capaci	tance is (f = farad):	
	(A)	1 f	(B)	10 f	>	(C)	0.1 f	(D)	0.01 f
144.	M.C. their	,	nd M	I.I. (Moving	Iron)	type	of instruments c	an be	distinguished b
	(A)	Range	(B)	Size of terr	ninals	(C)	Pointer	(D)	Scale
145.	Whic	ch of the followin	g flip	flops is used	d as L	atch?	1		
	(A)	JK flip-flop	(B)	RS flip-flop)	(C)	D flip-flop	(D)	T flip-flop
146.	Iden	tify the disease w	hich i	s caused du	e to d	eficie	ncy of Protein?		
	(A)	Scurvy	(B)	Beri-Beri		(C)	Night-Blindness	(D)	Kwashiorkor
147.	Нор	kinson's test for I	D.C. n	notors is con	ducte	d of :			
	(A)	Low Load	(B)	Half Load		(C)	Full Load	(D)	No Load
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148. If fineness Modulus of sand is 2.5, it is graded as :

(A) Medium sand

(B) Fine sand

Coarse sand (C)

(D) Very coarse sand

149. Large scale deforestation decreases:

(A) Soil Erosion

Rain fall (B)

Drought (C)

(D) Global warming

150. Hot Wire Instruments read:

(A) Peak value

(B) Average value (C) r. m. s. value

(D) None of these

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