RRB Ranchi INSTRUCTIONS (Please read carefully and comply)

(SSE)

- 1. Kindly read the complete set of instructions carefully and also see the instructions on the back side of the OMR Answer Sheet and fill the details in the OMR Answer Sheet and Question Booklet.
- 2. One paragraph each Hindi and English is given on Page 1. Copying of the paragraph in the space provided in the OMR Answer sheet (in the language as filled in the application form either in Hindi or English) in your running hand is compulsory. DO NOT USE BLOCK LETTERS.
- 3. (a) Question Booklet Serial No. must clearly be written and marked in the bubbles in the space provided in the OMR Answer Sheet.
 - (b) OMR Sheet No. should be written in the space provided in the Question Booklet.
- 4. After being instructed to open the Booklet, the candidates will open the seals. It is the responsibility of the candidate to check and ensure that the booklet contains 150 questions and start the paper from page no. 10.
- 5. The question paper comprises 150 questions and are available in congruent versions of English, Hindi, Urdu, Bengali, Odia, and Punjabi languages. In case of any doubt or confusion, English version shall prevail.
- 6. All Questions are of Objective type. There is only one correct answer to each question carrying one mark. There will be negative marking for wrong answers. For every wrong answer, 1/2 mark will be deducted.
- 7. In the event of any mistake in any question/s, candidates will not be penalized. However no corrections will be made in question/s during the examination.
- 8. You must use Blue or Black ball-point pen only for answering. Altering of answers once entered is not permissible. Enter the answers in the Answer Sheet carefully.
- 9. Rough work, if any may be done in the Question Booklet only in the space provided. No additional paper shall be provided.
- 10. Use of Log tables, Calculator, Slide rule, Mobile phone, Pager, Digital diary or any other electronic item/instrument etc. is not allowed. Their use will result in disqualification.
- 11. No candidate should leave the examination hall before the final bell. The Answer Sheet and the top sheet of the Question Booklet must be handed over to the invigilator before leaving the Examination Hall.

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TSG003314

ENGLISH

1. The Reserve	Bank of India was natio		(D) 1980	
(A) 1947	(B) 1949	(C) 1952	(b) and	
2. When an acid	d reacts with a metal, a c	corresponding salt is form	ied and	
	as is evolved	(B) carbon dioxide	e gas is evolved	
	gas is evolved	(D) nitrogen gas is	s evolved	
 Two bus ticks from city A to 	ets from city A to B and B and two tickets from	three tickets from city A city A to C cost Rs 73. W	to C cost Rs 77; but three tickets What is the fare for city C from A?	
(A) Rs 13	(B) Rs 23	(C) Rs 15	(D) Rs 17	
A. A black body	is a		the second second	
(A) good abso	orber, good emitter	(B) bad absorber,	bad emitter	
	rber, bad emitter	(D) bad absorber,		
5. Which of the f	ollowing relay does no	t have any moving part?		
	ded contacts relay	(B) reed relay		
(C) solid-state	The second s	(D) stepping relay		
6. <u>10×0/2×0/2×</u> 0.001×	$\frac{0.1 \times 0.1 \times 10^{10}}{0.01 \times 10^{10}} = ?$			
(A) 40	(B) 400	JET 4000	(D) 40000	
7. The Asian Gan	nes held in 2014 in Sou	th Korea was the		
(A) 14th Asian (Games	(B) 15 th Asian Ga	mes	
(C) 16 th Asian (James	(D) 17 th Asian Ga		
	s increased, resistivity			
(A) increases	A REAL	(B) decreases		
(C) remains sam	ie	(D) first increases and then decreases		
9. Rohan is sevent	eenth from the left en same row. How many		and Karim is smarth at a	
right end in the s				

(B) parallel proje	area there is			
(B) parallel proje	and the second se			
	ction			
(D) magnified pro	ojection			
arth is taken into acco	unt, is called			
(D) Scale survey	ing			
years. 10 years ago,	the ratio of their ages was 5:4. Fir			
(C) 50 years	(D) 48 years			
term is 23. Find the 1	4 th term.			
(C) 35	JDN 33			
o flow				
	50			
	4 al			
NUC.	-			
tume side and then fi	om N-type side to the P-type sid			
A set of electronic circuits on one small plate or chip of semiconductor material is called				
(D) small plate	circuit			
or true:	Contraction Res			
Service and	and a second second second			
	1.			
ine is higher.	line all			
r amount of lubricat	ing on.			
ng moment on the cri	ink shall is more uniteral.			
r flywheel.	States and States			
caused by				
(B) bending of the rolls				
(D) high ther	(D) high thermal conductivity of the material			
	 (C) 50 years term is 23. Find the I (C) 35 o flow side. side. type side, and then from the end of true: (D) small plate of true: ine is higher. or amount of lubrications of moment on the end of th			

J8. A moving iron ammeter responds to	(B) neither direct nor alternating current
(A) both direct and alternating currents(C) only direct current	(D) only alternating current
19. Out of the following statements, find out	the statement which is False:
(A) A transistor is a semiconductor device (B) Transistor are semiconductor device	
 (B) Transistors are commonly used as ele (C) Transistors are used to amplify electronic 	
(D) Transistors can not be used as logic g	
20. Under usual operating conditions, a synch	and the second
(A) zero slip	(B) positive slip
(C) negative slip	(D) positive or negative slip
-21. Three words are given below, which hav the most appropriate description about the	e something in common among themselves. Choose se three words.
Rickets : Scurvy : Beri-Beri	
(A) They are insects.	
(B) They are infectious diseases.	
(Ø) They are diseases caused by deficiency	y of vitamins.
(D) They are diseases caused by certain in	sect bites.
22. Fill in the blank:	
To create slide shows, is used.	THE STREET CONTRACTOR
(A) Microsoft Access	(B) Microsoft Outlook
(C) Microsoft Power Point	(D) Microsoft Word
,23. Damodar River originates from	
(A) Chota Nagpur Plateau	(B) Malwa Plateau
(C) Deccan Plateau	(D) Shillong Plateau
24. The plane which is not subjected to shear s	tress is known as
(A) simple plane	(B) non-shear plane
(C) compound plane	(D) principal plane
	A state the state of the state

	In amplifier (A) the input circui	t is forward-biased and	d output circuit is reverse	-biased.	
	(C) both input and	ait is forward-biased an output circuits are for- output circuits are rev		-biased.	
27	If the shielding gas	es used are not effecti	ve during welding, this m	ay lead to	
	(A) porosity	(B) undercutting	(C) cracks	(D) slag inclusion	
_28	programming langu	inge.		age which is not a high-level	
		hine code, Visual Basi			
	(A) Machine code	States and states	(C) Visual Basic	(D) Fortran	
~29.	The magnetic field produced by a current-carrying wire at a given point depends directly on the				
	(A) thickness of the		(B) material of the wi		
an -	(C) current passing	unougn n	(D) length of the wire	State of Contraction	
30.	Originally, the cons	stitution of India had		CONTRACT OF	
	(A) 350 articles	(B) 335 articles	(C) 395 articles	(D) 415 articles	
31.	If a full wave rectil ripple will be	fier circuit is operatin	g from 50 Hz mains, the	e fundamental frequency in th	
	(A) 25 Hz	(B) 50 Hz	(C) 70.7 Hz	(D) 100 Hz	
32.	Fill in the blank:	And the Mar	Sand Sandar	and the second second	
0	The principal cause	of acid rain is	from human sources.		
	(A) carbon compou	nds	(B) compounds of calcium and sodium		
	(C) sulphur and nitr		(D) carbon dioxide		

				The Article of the Ar
1		gest state of India is (B) Uttar Pradesh	(C) Maharashtra	(D) Madhya Pradesh
	-	and the second	ly three times the numb total number of children	ber of girls. Which one of the
	(A) 52	(B) 40	(C) 44	(D) 42 B
35.	As per Boolean Al	lgebra,	Line and the state	
	x AND y = ?; if x	x = 0, y = 1		and a state of the second
	(A) 1	(B) 0	(C) 2	(D) 10
		best conductor of heat (out of the following)?	
	Lead, Iron, Coppe			- Alterna -
	(A) wood	(B) lead	(C) copper	(D) iron
		-		
	(A) Geodimeter	owing instruments is us (B) Sextant	(C) Tellurometer	(D) Telescope
38.	$\frac{(9.69+3.26)^2+(9)^2}{9.69^2+3}$	26 ² = ?	100 100 100 100 100 100 100 100 100 100	
	(A) 2	(B) 2.16	(C) 2.60	(D) 3
	Generally concret	te has	A Salt All	in the second
		sive strength, but higher	r tensile strength.	atta
		ssive strength, but lower		3/69
	(C) equal compres	essive and tensile streng	gth.	All and the second second
	(D) tensile strengt	th much higher compar	red to compressive stren	igth.
40.	"The magnitude of flux through the c		a circuit is equal to the	time rate of change of magnetic
	The above law is	and the state of the state		Service A
		of electromagnetic indu	action.	
		w of electromagnetic in		an the second of the
in the second	(C) Ohm's law of	f electromagnetic induc	ction.	A CALL
		of electromagnetic indu		W D
	and the second	1 - Carlos Carlos Carlos		10 To
	1931 199			the state
				and the second
135	1. La Contrada			TSCORD
			14	

41. Pointing to a gentleman, Arun said to his friend, "His only brother is the father of my son's father". How is the gentleman related to Arun? (A) Father (B) Grandfather (C) Uncle (D) Brother-in-law A man running with a speed of 18 km/hour crosses a train of length 280 metres, running in the opposite direction in 20 seconds. What is the speed of the train? (D) 15 m/s (A) 9 m/s (B) 10 m/s(C) 12 m/sA3. The main thinking part of the brain is the (B) mid-brain (A) fore-brain (D) complete brain with all the three major parts (C) hind-brain 44. Working stress is always (B) equal to ultimate stress (A) less than ultimate stress (D) double the ultimate stress (C) more than ultimate stress 45. Find out the statement which is False: (A) E-mail is a method of exchanging digital messages. (B) E-mail uses technology to communicate a digital message over the internet. (C) E-mail is widely used on smart phones. (D) For using E-mail, the users and their computers are required to be online simultaneously. 46. In human beings, oxygen is carried by (B) the red blood cells (A) the white blood cells (D) water present in blood (C) both red and white blood cells 47. The diagonals of a Rhombus are 10 cm and 12 cm. Find the area of the Rhombus. (C) 60 cm² (B) 100 cm² (A) 120 cm² 48. A vessel has 60 litres of solution (mixture) of milk and water, having 80% milk. How much water should be added to it to make it a solution in which milk forms 60%? (D) 24 litres (C) 22 litres (B) 20 litres 49. Find the smallest number which when divided by 4, 11 or 13; leaves a remainder of 1 and is (A) 18 litres) greater than the remainder (D) 585 (C) 573 (B) 552 = 60 (A) 521 w

50. Out of the following, which one is inorg	anic water pollutant?
50. Out of the following, which one is more (A) tree and bush debris	(D) determented
ICA fordiners	(D) petroleum hydrocarbons
< 51. In the next 3-4 years, the Union Budget	2014-15 of India, aims for sustained growth of
(A) 3-4 percent	(B) 5-0 percent
(C) 7-8 percent	(D) 9-10 percent
be sold to avoid loss?	urred is 10%. At what minimum price should the article
(A) Rs 380 (B) Rs 400	(C) Rs 410 (D) Rs 430
53. Find out the option which is not correct	6/18
In actual transformers, energy losses occ	
(A) flux leakage	(B) resistance of the windings North of X
(C) eddy currents and hysteresis	(D) mechanical losses
54. Raju goes to Sitapur from Rampur at a km/hour. What is the average speed duri	a speed of 40 km/hour and returns with a speed of 60 ing the whole journey?
ゲ((A) 55 km/hour (B) 50 km/hour	(C) 48 km/bour (D) 45 km/bour
55. In Turning process, continuous chips are	usually formed at 1
(A) low cutting speeds and low-rake ang	les y fr y y
(B) low cutting speeds and high rake ang	
(C) high cutting speeds and low rake ang	1. 4 10 13
(D) high cutting speeds and high rake an	The second se
56. If a right circular cone has a base of radio of the right circular cone (in cm ³)	ius 7 cm and height of 30 cm, then find out the volume
(A) 1500 (B) 1540	(C) 1200 (D) 1240
The second was a seal of the second of the	right, he walks 25 metres. He then turns to his left and right and walks 25 metres. He then turns to his right e turns to his right and moves 40 metres. In which at?
(A) south-west (B) south-east 95	

58. A computer program which attaches itself and becomes part of another executable program and thus halts the system by leading to some undesired result, is known as (B) 'Computer virus' (A) 'Computer halter' (D) 'Computer firmware' (C) 'Computer processor' 59. 'Microsoft Excel' is a (B) presentation program (A) spreadsheet program (D) word processor (C) personal information manager 60: Fill in the blank: The _____ is a system of interlinked hypertext documents that are accessed via the internet. (D) world wide web (C) web browser (B) web page (A) hyperlink 61. Linux is a (B) proxy server (A) computer hardware (D) computer operating system (C) type of computer networking 62. The hardware within a computer that carries out the instructions of a computer program and process information and data provided through the input devices, is called (B) Memory Unit (A) Central Logic Unit (D) Input Unit (C) Central Processing Unit 63. If 120 is 20% of a number, then 120% of that number will be (D) 720 (C) 600 (B) 400 (A) 360 64. The bulk density of loamy surface soil is about (B) 0.6 to 0.9 grams/cm³ (A) 0.4 to 0.6 grams/cm³ (D) 2.0 to 2.5 grams/cm3 (C) 1.1 to 1.6 grams/cm3 65. Which of the following constitute a food-chain? (B) grass, goat and human (A) grass, wheat and apple (D) grass, fish and goat (C) goat, cow and elephant 66. Every substance has a unique value for the amount of heat absorbed or rejected to change the temperature of unit mass of it by one unit. This quantity is referred to as the (B) Thermal capacity 100.0 (A) Heat capacity (D) Specific heat capacity (C) Temperature capacity

	(A) 8.20	(B) 8.10	(C) 8.05	(D) 7.50
76.				ohit found himself thirty minutes cheduled time of the meeting?
	(A) energy	(B) momentum	(C) mass	(D) force
75.	Bernoulli's theorem	n deals with the prin	ciple of conservation of	
	(C) Swami Viveka		(D) Motilal Nehru	
171	(A) Bal Gangadha		(B) Madan Mohan	
74	NEW CONTRACTOR	llowing founded the	Benaras Hindu Universit	ty in Varanasi
	(A) Anita Desai (C) Arundati Roy		(D) Shashi Deshpan	ide
73.		llowing is the author	of novel "The Lowland" (B) Jhumpa Lahiri	
	(A) Argentina		and the second second	
	Canberra is the cap		(C) Austria	(D) Australia
				Mar - WA
May	(A) coil of flux cos (C) coil of plastic of	ated wire	(D) flux coated rod	Service - Service
Jr.	In submerged arc v	velding (SAW), the co	onsumable electrode is a (B) coil of bare wire	Contac lines -
2	(A) Haridwar		(C) Allahabad	
70.	The river Ganges (Ganga) begins at the o	confluence of the Bhagh	athi and Alaknanda rivers at (D) Devprayag
	(A) $\frac{5}{8}$	Jen 5		athi and Alaknanda rivers at
	the new area is now	a many mines in a	(C) $\frac{3}{7}$	(D) $\frac{7}{5}$
69,	The length and bre	adth of a rectangular	plot are increased by 20% inal area?	% and 50%, respectively. Then
	1	(D) modulation	(C) rectification	and the second
68.	In telecommunicati be physically transp	on, the process of con mitted is known as		(D) conduction
	(C) equal to dynam	ic friction	(D) less than or great	inside another signal that can
9	Static friction is alv (A) greater than dyn	namic friction	(B) less than dynamic	er than dynamic friction

 Galvanisation is a method of protecting steel and iron from rusting, by coating them with a layer of (A) tin (B) zinc (C) aluminium (D) paint 78. For measuring detonating characteristic of any fuel on Octane Number Scale, Iso-octane rated as (A) 100 (B) 90 (C) 75 (D) 50 79. Working together, A and B can do a work in 10 days A alone can do the same work working alone: in 15 days. In how many days, B alone can do the whole work working alone? (A) 18 days (B) 20 days (C) 25 days (D) 30 days 80. Two trains of length 200 metres and 220 metres are running on parallel tracks in the sar direction. Speed of first train is 72 km/hour and speed of second train is 54 km/hour. What the time taken by both the trains to cross each other (A) 70 seconds (B) 76 seconds (C) 80 seconds (D) 84 seconds 81. A wire of a given material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L and area of cross-section A has a resistance of the pattern without damaging the mold. The taper provided is called (A) and (B) and (C) angula	7.01			in the states
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rated as 6. $\int_{-\infty}^{\infty} (A) 100$ (B) 90 (C) 75 (D) 50 79. Working together, A and B can do a work in 10 days A alone can do the same work working alone: (A) 18 days (B) 20 days (C) 25 days (D) 30 days 80. Two trains of length 200 metres and 220 metres are running on parallel tracks in the sam direction. Speed of first train is 72 km/hour and speed of second train is 54 km/hour. What the time taken by both the trains to cross each other (A) 70 seconds (B) 76 seconds (C) 80 seconds (D) 84 seconds 81. A wire of a given material having length L and area of cross-section A has a resistance of other. What would be the resistance of another wire of the same material having length $\frac{1}{2}$ area of cross-section 2A? (A) $\frac{1}{4}$ ohm (B) $\frac{1}{2}$ ohm (C) 1 ohm (D) 8 ohm 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removatible pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (D) producing oscillations in an oscillator (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabbhai Patel (B) Vallabbhai Patel	(A) tin	(B) zinc	(C) aluminium	(D) paint
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 (A) 70 seconds (b) 70 seconds (c) or eventual 81. A wire of a given material having length L and area of cross-section A has a resistance of ohm. What would be the resistance of another wire of the same material having length L area of cross-section 2A? (A) ¹/₄ ohm (B) ¹/₂ ohm (C) 1 ohm (D) 8 ohm 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removative pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (O) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabbhai Patel (B) Vallabbhai Patel 	direction. Speed	of first train is 72 km	hour and speed of seco	on parallel tracks in the same nd train is 54 km/hour. What is
 ohm. What would be the resistance of another wire of the same material having length ¹/₂ area of cross-section 2A? (A) ¹/₄ ohm (B) ¹/₂ ohm (C) 1 ohm (D) 8 ohm 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removathe pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabbhbai Patel (B) Vallabbhbai Patel 	(A) 70 seconds	(B) 76 seconds	(C) 80 seconds	(D) 84 seconds
 ohm. What would be the resistance of another wire of the same material having length ¹/₂ area of cross-section 2A? (A) ¹/₄ ohm (B) ¹/₂ ohm (C) 1 ohm (D) 8 ohm 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removathe pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabbbhai Patel (B) Vallabbhbai Patel 	81. A wire of a give	n material having len	gth L and area of cross	-section A has a resistance of 4
 area of cross-section 2A? (A) ¹/₄ ohm (B) ¹/₂ ohm (C) 1 ohm (D) 8 ohm 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removathe pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inelination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabbhai Patel (B) Vallabbhai Patel 	ohm What would	t be the resistance of	another wire of the sam	e material having length $\frac{L}{2}$ and
 82. In metal casting process, a small taper is provided in sand-mold patterns to enable removative pattern without damaging the mold. The taper provided is called (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver. 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subhes Chandra Bose 				12 : Bar = BT
 the pattern without damaging the mold. The taper provided is cared (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subbas Chandra Bost 			(C) 1 ohm	A (D) 8 ohm
 (A) parting (B) draft (C) angular allowance (D) inclination 83. In internal combustion engine, pistons are generally made of (A) iron (B) copper (O) aluminium alloy (D) silver. 84. Zener diode is used for (A) amplification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (B) Vallabhbhai Patel (C) angular allowance (D) inclination 	82. In metal casting the pattern witho	process, a small taper ut damaging the mold.	is provided in sand-mo. The taper provided is c	alice 13
 (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subhes Chandra Bost 		and the second		
 (A) iron (B) copper (C) aluminium alloy (D) silver 84. Zener diode is used for (A) amplification (C) rectification (C) rectification (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subhes Chandra Bost 	83. In internal combi	astion engine, pistons	are generally made of	1. 小茶口 积极的
 (A) amplification (B) stabilisation (D) producing oscillations in an oscillator 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subher Chandra Bost 		The second s	(9) aluminium all	oy (D) silver
 (A) amplification (D) producing oscillations in an oscillator (C) rectification (D) producing oscillations in an oscillator (E) Vallabhbai Patel (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Sobbas Chandra Bost 	84. Zener diode is us	ed for		1997
 (C) rectification (D) producing oscinations in an estemation 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (D) Subbas Chandra Boss 	(A) amplification	1	(B) stabilisation	W. J La assillator
 85. Who among the following was known as 'Deshbandhu'? (A) Dadabhai Naoroji (B) Vallabhbhai Patel (B) Subbas Chandra Bost 			(D) producing osc	mations in an oscillator
(A) Dadabhai Naoroji (B) Vallabhbhai Pater	and the second	following was known	as 'Deshbandhu'?	and the state
(A) Danamar Hadroji			(B) Vallabhbhai I	atel
			(D) Subhas Chan	dra Bose

		ć	Ĭ	
86. Ethane, with th	he molecular formula C2	H ₆ has	and the second	
(A) 5 covalent		(B) 6 covalent bonds		
(C) 7 covalent		(D) 8 covalent bonds		
87. Rate of doing	a same of the order to	Mar Contraction of the		
(A) energy	(B) power	(C) force	(D) momentum	
		New Plastion		
88. Concurrent for	ces are those forces who		alana	
(A) lie on the s		(B) meet on the same		
(C) meet at one	point	(D) lie on different p		
89. The rate at whit	ch the Reserve Bank of I	india lends short-term mo	ney to the banks, is known as	
(A) Reportate			te de la companya de	
(C) Liquidity ra	le ·	(D) Prime Lending n	ate	
	tion is followed by el overy is known as	astic recovery upon ren	noval of the load. In bendin	
(A) spring back	(B) spring effect	(C) radius gain	(D) radius loss	
9. Kathakali is a cl	ansical dance - drama fe	orm, which originated fro	m	
(A) Kerala	(B) Tamilnadu	(C) Manipur	(D) Odisha	
92. In case of an ove	roading in a domestic of	circuit, the possible dama	ge can be prevented by using	
(A) an electric m	vitch	(B) an earth wire		
(C) an electric m	cler	(D) an electric fuse		
93. A compiler is a				
(A) Computer has	rdware	(B) Computer virus	and states to be the	
(C) Computer net	tworking	(D) Computer progra	m	
94. In how many he arranged?	orizontal rows (period		the Modern Periodic Tab	
(A) 5	(B)7	(C) 8	(D) 10	
5. The cost of 4 man	goes equals the selling	price of 3 mangoes. Fin	d the malt	
	a state of the second state of the second		une prom percentage.	
(A) 30%	(B) 33 1 %	(C) 40%		

96. Ratio of the age of A and B is 2:5 and ratio A, B and C?	o of age of B and C is 3:4	
(A) 3:4:5 (B) 6:15:18	(C) 6 : 15 : 20	(D) 6 15 25
97. Which scientist was awarded with 'Bharat	Ratna' in the year 2014?	
(A) Prof. Padmanabhan Balaram (C) Prof. C.N.R. Rao	(B) Prof. Jyeshtharaj Jo(D) Prof. Anisuzzaman	oshi
.98. Choose the most reactive metal (as per the	e Reactivity Series) out o	f the following:
Potassium, Aluminium, Magnesium, Iron		
(A) Potassium (B) Iron	(C) Magnesium	(D) Aluminium
99. A sum of money amounts to Rs 2600 in interest. What is the rate of interest?	1 3 years, and to Rs 300	
(A) 10% (B) 12%	(C) 5%	(D) ^{7%}
190. Find the value of x, if $\log 3x - \log 6 = \log (A) 20$ (B) 21	g 12 (C) 22	(DDT 24
101. The President of India must be a citizen (A) 25 years of age (B) 35 years of age	(C) 30 years of age	(D) 40 years of age
 (A) 25 years of the set of the	(B) virtual and inve (D) real and inverte	
103. If a solution turns red litmus blue, its pl (A) 2 (B) 4	H is likely to be (C) 5	(P) 10
(A) 2 (A) 55000 kms. (B) 65000 kms.	metres of approximately (C) 75000 kms.	(D) 85000 kms.
 105. The major greenhouse gases are (A) carbon monoxide and nitrogen (B) carbon monoxide and sulphur diox (C) oxygen, carbon monoxide and sul (D) water vapour, carbon dioxide and 	prim dioxide	He a ar
		AIBIS ANT

	6			s bent in the shape of a square			
		and another an area o	if 484 square cm, if it was	Ochi III site			
106.	A copper wire v	the form of a circle, fin	d the radius of the circle (C) 21 cm				
1	If it was been in	die totte	(C) 21 cm	(D) 28 cm			
	(A) 14 cm	(B) 18 cm		m. Then, a solid cube of 10 c ing water. If the dimensions pside) what is the rise in wa			
	Z	in a rectangular vess	el upto the height of 20 c	m then, a some dimensions			
107.	Water is filled u	of completely in the re	ctangular vessel containing	m. Then, a sond cube ensions ing water. If the dimensions nside), what is the rise in wat			
	edge is unification	vessel are 30 cm and 2	0 cm respectively (from t	Mardeli			
	level?						
	IC COL.	1	(C) 3 cm	(D) $\frac{5}{3}$ cm			
	(A) 5 cm	(B) $\frac{3}{5}$ cm	(0) 5 6	25.00			
			inclusion and uctor?				
108.	Out of the follo	wing, which is not a m	trinsic semiconductor?				
	Tellunum, Car	bon, Silicon, Germaniu	m	(D) Carbon			
	(A) Germanium		(C) Tellurium	(D) Carbon			
	(A) Octoberrout			ne number so obtained is 10			
109.	A number is decreased by 10% and then increased by 10%. The number so obtained is 10 les						
	than the origina	il number. What was th	to catigorian comment				
	(A) 1000	(B) 1200	(C) 1500.	(D) 1800			
MA		th identical molecular	formula but different stru	ctures are called			
210.			(B) structural isom	ers			
	(A) structural is		(D) twin structures				
	(C) structural is	sotope	(1) (*************	has been a			
AII.	Action and read	ction (forces) always a	ct on				
1	(A) different be						
	(B) the same be						
	(C) may act on	the same body or diffe	erent bodies				
	(D) a third bod	Y	the second the				
1/2	Which of the fo	ollowing is a plant hor	mone?				
	and the second second	Charles States	The second second second	and the second second second			
	(A) auxin	all a second	(B) thyroxin	Strange and the			
	(C) insulin	CARL CAR	(B) oestrogen				
J15.	Which of the fo	ollowing diseases is ca	used due to deficiency o	f Vitamin A?			
	(A) beriberi	A Part Assess	(B) scurvy				
19.1	(C) rickets		(D) night-blindne	NER			
	fertingen.		(c) all in-out the				

1	AT Experience	(B) Engagement	(C) Qualification	(D) Employment	
	Reading : Knowledg			(D) Freedoment	
	he same relationshi	p to the third word, as		noose me werd, wh	ich igh
1344	and the state of the second		he first two words and c	hoose the word wh	ich her
	(C) compressibility(D) weight of the lie	and the second		Louis Balance	
	(B) viscosity of the	And the second			
		hich the liquid is displ	iced	a state of	
120.	The buoyancy depe	nds upon the			1.2
170	(D) CPM is probabl	ilistic whereas PERT is	deterministic.	12 200 12	
	(C) Both are determ		Mary Contractory		1. 2
4	The first of the first of the first of the	vilistic whereas CPM is	deterministic.	the state of the	Nich.
	(A) Both are probal	the state of the second state			
119.	Which statement is (Critical Path Meth	s correct about PERT	(Program Evaluation Re	eview Technique) an	nd CPM
	(A) square	(B) hyperbola	(C) parabola	(D) circle	
J18.	a set of the set of th	wing is not a conic sect			
	(A) Indium	(B) Boron	(C) Phosphorus	(D) Aluminium	
		osphorus, Aluminium			
×		ANGUCION (opant for obtaining a P-t	type extrinsic semico	nductor
117		and the second second second	(C) maximum	(D) zero	
-	(A) positive	e expansion process is (B) negative	(C) maximum	100	
116	A Service of the serv		(C) low maintenance	(D) high efficiency	ľ
	(A) long lifespan		ss DC Motor has followir		
2	Find out the False				
115		(B) acidic	(C) alkaline	(D) salty	
	(A) neutral	is to act	the stomach is made	by bile juice.	for the
	FT PULLERING IN DOCTOR				

	10-11 - 1			ivision and one Vernier Scar			
		the difference be	etween one main scale d	IVISION BIRG COL			
122	In a Vernier Ca	liper, me amerene					
	division, is equal		(C) Zero error	(D) Zero correction			
	(A) Pitch	(B) Least count	(() 200 000				
		L	ered the				
123	. Use of Chloroflu	orocarbons has endang	cicu inc				
	(A) ground water level		(B) OCCAD WILLIAM IN	ter as phone			
			(D) oxygen level in a				
	(C) ozone iayer			Is and plants adapting to them			
124	Very large ecolo	igical areas on the ear	th's surface, with anima	lo una persona i			
6	environment, are	called					
	(A) food chain	(B) biome	(C) food web	(D) habitat			
	and the second s			Lis and			
125.	The great Mughal Emperor Akbar was succeeded as emperor by his son						
	(A) Humayun	(B) Jahangir	(C) Shah Jahan	(D) Aurangzeb			
	Yri Humayan	(e) rum gr		34 g 36			
126.	Find the wrong n	umber in the series		1.04			
	and the second sec						
	3 8 15.24.34. (A) 24	mine	(C) 48	(D) 63			
	(A) 24	(0) 34	10140	(c)			
y27.		rket economy, in which and consumption, is ca		firms make the major decision			
	(A) Command economy		(B) Mixed economy	and the second of the			
	(C) Market economy		(D) Auto economy				
	1						
128.	The plan view is	a view seen directly fro	m	But the state of the last			
4	(A) a side	(B) front	(C) an angle	(D) above			
			Contraction of the second	(c) dere			
129.	As compared to l	aminar flow, in turbule	nt flow, boundary layers	will be			
	(A) thinner	(B) thicker	(C) same				
	C. C	(b) hours	(c) same	(D) half			
130.	The final of the F	ootball World Cup 20	14 was played between				
			A STREAM AND AND A STREAM AND AND AND				
(A) Argentina and Germany			(B) Brazil and Germany				
	(C) Germany and Italy		(D) Argentina and Netherlands				
131	A diagram showi	no the interment					
	a onegrain anow	ing the interconnection	s between the parts of an	industrial process is known a			
in a l	(A) butterfly diag	,ram	(B) indicator diagram				
	(C) block diagram						
101			(D) venn diagram				

132	One Pascal of press	ure is equal to		a start and a start and a start			
	(A) I dyne/cm ²		(C) 10 newton/metre ²	(D) 100 newten/metre ²			
133.	If an electric current I is flowing through a resistor of resistance R, the amount of heat produced H in time t is						
	(A) IRt ²	(B) IR ² t	(C) I ² Rt	(D) IRt			
134.	Fill in the blank: The State of Assam is surrounded by neighbouring Indian States.						
	(A) six	(B) five	(C) eight	(D) seven			
135.	How the large scale properties of solid materials result from their atomic-scale properties, is studied in						
	(A) metallurgy (C) solid-state physics		(B) liquid-state physics				
			(D) crystal physics				
126	Fill in the blank						
150.	Fill in the blank "In an AC generator, the axis of rotation of the coil is to the direction of the magnetic						
	field".	· · · · · · · · · · · · · · · · · · ·		(D) inclined (45°)			
	(A) parallel	(B) perpendicular	(C) inclined (30°)				
127	Nervous tissue is	specialised for conducti	ng information from or	ne part of the body to another via			
<i>y</i>			(B) mechanical impulses				
1 mar	(A) sound waves		(D) electrical impulses				
	(C) magnetic imp		. 4				
138.	If r% of x is 49, t	hen x is equal to	The rel	6 700 2 - 4 0 (D) 1400			
1		(BA 70)					
	(A) I (A) I (A) I (A) I (A)						
129.	in screw gauge, called the		Contraction and				
	A Contraction of the second	(B) gauge constan	t (C) module	(D) pitch			
	(A) least count	(0) 6-0	trees sing nearer to th	ne piston crown is known as			
140	(A) least count (C) give (A) in internal combustion engine, the top (A) compression ring		piston ring fields to -	APRE STREET			
<			(b) carrie				
	(C) scrapper ring	1	(D) groove ring	All States			
a de	- Liderer in h	uman beings are a par	t of the system for				
141.	(A) nutrition	(B) respiration	(C) transportati	on (D) excretion			
100 3			25	A Long to the second			
56390	03314						

			the coordin	ate axes are		
14	2. In Isometric proj	ection, the angles betwee	n any two of the coordin	(D) 30 degrees		
	(M) 00 dearees	(B) 120 degrees	(C) 45 uegrees			
1,4	(to Mohan at 10% profit. the price at which Arun b	Mohan sold it to Raju a ought the table?	t 20% profit. If Raju bought		
	(A) Rs 400	(B) Rs 450	(C) Rs 500	(D) Rs 550		
144	If 'book' is called , 'window'; which	d 'watch', 'watch' is call is used to carry the book (B) bag	ed 'bag', 'bag' is called	'pillow' and 'pillow' is called		
5287	(A) pillow	(B) bag	(C) book	(D) watch		
145	Relatively long, bearing capacity	slender members that t	ransmit foundation load ng a high bearing capacit	is through soil strata of low y, are known as		
	(A) pads	(B) strips	(C) rafts	(D) piles		
.146.	The SI Unit of po	wer of a lens is		and the second s		
	(A) Curie	(B) Dioptre	(C) Weber	(B) Watt		
147.	South African lea	der Nelson Mandela dies	f at Johannesburg in	and the property		
	(A) June 2013	(B) September 2013	(C) December 2013	(D) February 2014		
148.	A current of 0.2 a electric charge that	mpere is drawn by filam it flows through the circs	ent of an electric bulb fo	or 20 minutes. The amount o		
	(A) 4 coulomb	(B) 40 coulomb	(C) 100 coulomb	(D) 240 coulomb		
A49.	Fill in the blank:					
	in the atmosphere, ammonia reacts with to form secondary particles, which ar					
1	(A) sulphur	(B) oxygen	(Ø carbon	(D) nitrogen		
150.	If a : b = 3 : 7, wha	at is the value of $\frac{4a+5l}{2a+2l}$	}=?			
	(A) $\frac{7}{4}$	(B) $\frac{5}{2}$	(C) $\frac{37}{20}$	(B) <u>47</u> 20		
	- 13+5 :	47/20		/ 20		
- ANT	+ 151 :	r	and the first of the			