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Q.1	The ratio of the dimens and that of the mor	sion of Planck's constant ment of inertia has the	Q.7	The dimension of vol length (T), and ampe	tage in terms of mass (M), re (A) are :	
	dimensions of			(a) [ML <sup>2</sup> T <sup>-2</sup> A <sup>-2</sup> ]	(b) [ML <sup>2</sup> T <sup>3</sup> A <sup>-1</sup> ]	
	(a) Frequency	(b) Velocity		(c) [ML <sup>2</sup> T <sup>-3</sup> A <sup>1</sup> ]	(d) [ML <sup>2</sup> T <sup>-3</sup> A <sup>-1</sup> ]	
	(c) angular momentum	n (d) time	Q.8	A ball of mass m <sub>1</sub> ,	makes a head on elastic	
Q.2	A ball is dropped from height h. The total dist last second of its motion	m the roof of a tower of tance covered by it in the on is equal to the distance		collision with a ball of mass m <sub>2</sub> which is initially at rest. The transfer of kinetic energy to the second ball is maximum when:		
	covered by it in first the	ree seconds. The value of		(a) m <sub>1</sub> <m<sub>2</m<sub>	(b) m <sub>1</sub> < <m<sub>2</m<sub>	
	n in metre is (g= 10 m/	SHAPING YOU	ÜR	(c) m <sub>1</sub> =m <sub>2</sub>	(d) m <sub>1</sub> >>m <sub>2</sub>	
	(a) 125	(b) 200	Q.9	The distance travelle	ed by a body falling under	
	(c) 100	(d) 80		gravity in the first, se	econd and third second are	
Q.3	Ball is dropped from th	e top of a building . At the		in the ratio:	TM	
	same instant ball B is	thrown vertically upwards		(a) 1:8:27	(b) 1:2:3	
	moving in opposite dire	actions and the speed of A		(c) 1:4:9	(d) 1:3:5	
	is twice the speed of	B. At what fraction of the	Q.10	A bullet weighing	10g and moving with a	
	height of the building did the collision occurs?			velocity of 300m/s st	rikes a 5 kg block of ice <mark>and</mark>	
	(a) 1/3	bhaping your (b) 2/3	C/	drops dead, the block	ock which is situated on a	
	(C) <sup>1</sup> / <sub>4</sub>	(d) 2/5		after collision is :	ce. The speed of the block	
Q.4	A juggler maintains for	ur balls in motion, making		(a) $60 \text{ cm/s}$	(b) 6cm/s	
	each of them to rise a	a height of 20 m from his				
	hand. What time interv	val should he maintain, for		(c) 0.8 cm/s	(a) 5 cm /s	
	the proper distance bet	tween them ? (g= $10m/s^2$ )	Q.11	Forces 3N, 4N and	d 12N act a t a point in	
	(a) 3s	(b) $\frac{3}{2}$ s		magnitude of resultar	nt force in newton is :	
	(c) 1s	(d) 2s		(a) 19	(b) 7	
Q.5	For a diatomic gas :	SHAPING YOU	UR	CAREER (c) 12	(d) 13	
	(a) $C_{V} = \frac{5}{2} R$	(b) $C_{P} = \frac{5}{2} R$	Q.12	The range of particle	when launched at an angle	
ſ	(c) $C_{P} = \frac{2}{7} R$	(b) $C_V = \frac{7}{2} R$		of 15 <sup>0</sup> with the horizor range of the project	ontal is 1.5 km. What is the stile when launched at an	
Q.6	If m is the mass and	c the velocity of light, the		angle of 45 <sup>0</sup> to the ho	prizontal?	
	dimensions of mc <sup>2</sup> are :			(a) 0.75 km	(b) 6.0 km	
	(a) [MLT <sup>-1</sup> ]	(b) [ML <sup>-3</sup> T <sup>-2</sup> ]		(c) 1.5 km	(d) 3.0 km	
	(c) [M <sup>0</sup> L <sup>2</sup> T <sup>-2</sup> ]	(d) [ML <sup>2</sup> T <sup>-2</sup> ]				
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Q.13	Two skaters A and B are at a distance of 5 m,			(c) $\sqrt{3rg}$	(d) $\sqrt{rg}$			
	their masses are 40 kg	g and 60 kg respectively.	Q.19	Rocket works on the pri	nciple of conservation of			
	where will they meet?			(a) linear momentum	(b) Angular momentum			
	(a) 3m from A	(b) 2m from A		(c) Mass	(d) Energy			
	(c) 2.5 m from A	(d) 1.5 m from A	Q.20	If the radius of earth w	ere to shrink by 1% <mark>, its</mark>			
Q.14	The time period of a body executing simple			mass remaining the sar to gravity on earth's sur	ne , the acceleration due face will :			
	is 4.0 cm. The maximum velocity of the body is .			(a) remain unchanged	(b) decrease by 2%			
	<ul><li>(a) 4π m/s</li></ul>	(b) $3.1  \pi  m/s$		(c) increase by 2%	(d) none			
	(c) 16 π m/s	(d) $2\pi m/s$	Q.21	In order of raise a mass	of 100 kg a man of			
Q.15	When a sound wave	of frequency 300 Hz		mass 60 kg fastens a re over a smooth pulley. H	ope to it and the rope e climbs the rope with an			
	passes through a r	nedium, the maximum		acceleration 5g/4 relativ	re to rope. The tension in			
	displacement of the particle of the medium is 0.1				(b) 928 N			
	cm. The maximum ve	elocity of the particle is		(c) $1218$ N	(d) 642 N			
	equal to : (a) $60 \text{ m/s}$	(b) 30 cm/s	Q.22	Suppose all the surface	s in the previous			
	(c) $30  \pi  \text{cm/s}$ (d) $60  \pi  \text{cm/s}$			due to A	direction of friction on B			
		YOUR	C/	(a) is zero	(b) is upward			
Q.16	The temperature coef	ficient of resistance is		(c) is downward				
	which temperature the	resistance of wire will be		(d) depends on the mas friction coefficients at dif	sses of A and B and fferent surfaces.			
	2Ω?		Q.23	A car is going at a s	peed of 6 m/s when it			
	(a) 1127K	(b) 1400K		encounters a 15 m s friction coefficient betwe	lope of angle 30 <sup>0</sup> . The een the road and typ <mark>e is</mark>			
	(c) 1100K	(d) 11.54 K		0.5. The driver applies t speed of car with which	he brakes. The minimum it can reach the bottom			
Q.17	A sound wave has	fr <mark>equency 500 H</mark> Z and		is (g =10 m/s <sup>2</sup> )				
	velocity 350 m/s. What	is the distance between		(a) 4 m/s	(b) 3 m/s			
	two particles having p	hase difference equal to ON	ЛК	(c) 7.49 m/s	(d) 8.45 m/s			
	60'?		Q.24	A 15 g ball is shot fro	om a spring gun whose			
	(a) 23 cm	(b) 583 cm		spring is compressed	by 5 cm. The greatest			
	(c) 10 cm	(d) 11.67 cm		compression is $(g = 10)$	$m/s^2$ ).			
Q.18	If a body is rotating	in a vertical circle, the		(a) 6. <mark>0 m</mark>	(b) 12.0 m			
	minimum speed at the	top of the vertical circle		(c) 10.0 m	(d) 8.0 m			
	WIII DE :		Q.25	A particle of mass 1 kg	is projected at an angle			
	(a) $\sqrt{2rg}$	(b) may have any value		of 30° with horizontal w	with velocity $v = 40 \text{ m/s}$ .			
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## NTHE-2014 ND-K-IV The change in linear momentum of the particle (d) Not constant (c) ω after time t = 1 s will be $(g = 10 \text{ m/s}^2)$ Q.32 Two equal and opposite forces act on a rigid (a) 7 kg m/s (b) 15 kg m/s body at a certain distance. Then (d) 20 kg m/s (a) the body is in equilibrium (c) 10 kg m/s Q.26 A particle of mass m is made to move with (b) the body will rotate about its centre of mass uniform speed v along the perimeter of a (c) the body may rotate about any point other regular polygon of 2n sides. The magnitude of than its centre of mass impulse applied at each corner of the polygon is (d) The body cannot rotate about its centre of (a) 2 mv sin $\frac{\pi}{2n}$ (b) m v sin $\frac{\pi}{2n}$ mass (c) m v cos $\frac{\pi}{2n}$ (d) 2 mv Cos $\frac{\pi}{2n}$ Q.33 A particle of mass M is placed at the centre of a uniform spherical shell of mass 2M and radius Q.27 from a circular disc of radius R a square is cut R. The gravitational potential on the surface of out with a radius as its diagonal. The distance the shell is of the centre of the disc is (a) $-\frac{GM}{R}$ (b) $-\frac{3GM}{R}$ (c) $-\frac{2GM}{R}$ (b) Zero (a) $\frac{R}{\pi - 2}$ (c) $\frac{R}{2(2\pi-1)}$ (d) $\frac{R}{2}$ Q.34 A particle on earth's surface is given a velocity Q.28 Two rings of same radius (r) and mass (m) are equal to its escape velocity. Its total mechanical placed such that their centre are at a common energy will be point and their planes are perpendicular to each (a) negative (b) Positive other. The momentum of inertia of the system (d) Infinite about and axis passing through the centre and (c) zero perpendicular to plane of one of the ring is Q.35 At what height from the surface of earth the YOUR (b) mr<sup>2</sup> (a) $\frac{1}{2}$ mr<sup>2</sup> total energy of a satellite is equal to its potential energy at a height of 2R from surface of earth? (c) $\frac{3}{2}$ mr<sup>2</sup> (b) 2mr<sup>2</sup> (R = radius of earth) Q.29 A uniform thin bar of mass 6m and length 12 L is (a) 2R (b) $\frac{R}{2}$ bent to make a regular hexagon. Its moment of (C) $\frac{R}{4}$ (d) 4R inertia about an axis passing through the centre of mass and perpendicular to the plane of Q.36 Two earth – satellites are revolving in the same hexagon is circular orbit round the centre of the earth. They (b) $6mL^2$ (a) $20mL^2$ must have the same (d) 30 mL<sup>2</sup> (c) $\frac{12}{5}$ mL<sup>2</sup> (a) mass (b) angular momentum (c) kinetic energy (d) velocity Q.30 A wire of length I and mass m is bent in the form of a rectangle ABCD with $\frac{AB}{BC}$ = 2. The moment of Q.37 A particle of mass 0.1 kg executes SHM under a force F = (-10x).N. Speed of particle at mean inertia of this wire frame about the side BC is position is 6m/s .Then amplitude of oscillations (a) $\frac{11}{252}$ ml<sup>2</sup> (b) $\frac{8}{203}$ ml<sup>2</sup> is (b) 0.2 m (a) 0.6m (c) $\frac{5}{136}$ ml<sup>2</sup> (d) $\frac{7}{162}$ ml<sup>2</sup> (c) 0.4 m (d) 0.1 m Q.31 A particle moves in a circle with constant Q.38 An ice cube of size a = 10 cm is floating in a angular velocity $\omega$ about a point P on its tank (base area A = 50 cm $\times 50$ cm) partially filled circumference. The angular velocity of the with water. The change in gravitational energy, particle about the centre C of the circle is when ice melts completely is (density of ice is (b) $\frac{\omega}{2}$ (a) 2ω $900 \text{ kg/m}^{3}$ ) NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow, Ph:0522-3293158, 2714802,07275924537,

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	(a) -0.072J	(b) -0.24 J		(a) 5,1,±1,±½	(b) 5, 1, ±0 ,±½		
	(c) -0.016 J	(d) −0.045 J		(c) 6, 1, ±1, ±½	(d) none		
Q.39	A wooden cube floa	ting in water supports a	0 47	Which transition is con	cerned with maximum		
	mass m = 0.2 kg on its top. When the mass is removed the cube rises by 2 cm. The side of the			energy ?			
	cube is (density of water = $10^3$ kg/m <sup>3</sup> )			(a) L-S transition	(b) L-N transition		
	(a) 6 cm	(b) 12 cm		(c) L-R transition	(d) L-K transition		
0.40	(c) 8 cm	(d) 10 cm	0.48	How many nodal plane	as are there in a 4d $^2$		
Q.40	temperature $T_0$ is mixed	ed with 4 moles of another	Q.40	orbital			
	the temperature of the	mixture is		(a) 1	(b) 2		
	(a) $\frac{5}{3}$ T <sub>0</sub>	(b) $\frac{1}{2}T_0$ YOU	R	CAREER (c) 3	(d) none		
	(c) $\frac{4}{3}$ T <sub>0</sub>	(d) $\frac{5}{4}T_0$	Q.49	What is the value of su	bsidiary quantum number		
Q.41	How many bulges are	e there in a $5g_z^4$ orbital.		for a sharp orbital?	TNA		
ſ	(a) 3	(b) 4		(a) 0	(b) 1		
	(c) 5	(d) none		(c) 2	(d) 3		
Q.42	How many anti nodes	are there in a 3p <sub>x</sub> orbital	Q.50	The angular momentur	n of an electron is equal		
	(a) 3	(b) 4		to $2h/\pi$ , what can be the	he maximum value of its		
	(c) 2	SHAPING YOUR	C	orbital quantum numb	er?		
Q.43	How many number of	possible orientations for a		(a) 2	(D) 4		
	ʻg' orbital?			(c) 3	(d) none		
	(a) 0	(b) 4	Q.51	Which orbital has highe	est penetrating power?		
	(c) 18	(d) none		(a) gerade	(b) diffuse		
Q.44	What is the maximum	number of possible		(c) fundamental	(d) principal		
	orientations for an 's' o	orbital	Q.52	Elactronegativity of an	element do not depends		
	(a) zero	(b) 1		on?			
	( <mark>c</mark> ) 2	(d) none YOU	R	(a) electron gain entha	alpy		
Q.45	The maximum value o	f magnetic quantum		(b)ionisation energy			
	number for a 'P' shell?			(c)contra valency	(d) bond energy		
ſ	(a) 0	(b) 5	Q.53	Which of the following	is a 'super <mark>o</mark> xide'		
	(c) 3	(d) none		(a) K <sub>2</sub> O <sub>2</sub>	(b) KO <sub>3</sub>		
Q.46	What would be the val	ue of n,l,m,s, for the last		(c) Na <sub>2</sub> O <sub>3</sub>	(d) MgO <sub>4</sub>		
	electron of an atom with outer most electronic						
ALC:	configuration as Pp <sup>*</sup> .						
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Q.54	The oxidation number a	and valency of C in		(c) 4	(d) none
	sucrose( $C_{12}$ H $_{22}O_{11}$ ) is		Q.63	What type of bond is fo	ormed by the overlap of a
	(a) +4 &4	(b) +3 & 0		$p_x$ orbital with a $p_z$ orbit	al over z axis ?
	(c) +2 &4	(d) 0 & 4		(a) π bond	(b) σ bond
Q.55	The oxidation state of S	Sr in SrH <sub>2</sub> is?		(c) δ bond	(d) none TM
	(a) -1	(b) -2	Q.64	What type of bond is fo	ormed by the overlap of
	(c) +1	(d) +2		two d <sub>xy</sub> orbitals over x a	axis?
Q.56	Oxidation number of flu	orine in $F_2O_2$ is		(a) π bond	(b) σ bond
	(a) -1	(b) -2 A PING YOU	B	(c) δ bond	(d) none
	(c) +1	(d) +2	Q.65	What is the bond order	of HCI molecule ?
Q.57	What is the value of n	in this reaction?		(a) 1	(b) 2
	MnO₄ <sup>-</sup> + 8H <sup>+</sup> + ne <sup>-</sup> –	$\rightarrow$ Mn <sup>+2</sup> + 4H <sub>2</sub> O is		(c) 3	(d) none TM
	(a) 5	(b) 4	Q.66	How many antibonding	electrons are there in a
	(c) 2	(d) none		HF molecule?	
0.59	The exidation number of	of two stoms of chloring		(a) 0	(b) 2
Q.30	in bleaching powder is			(c) 4	(d) 1
	(a) -1 only	bhaping your (b) –1 &+1	Q.67	How many bonding ele	ectrons are there in an HCI
	(c) 0	(d) +2&-2		molecule?	
Q.59	Oxidation number of P	in KH <sub>2</sub> PO <sub>2</sub> is		(a) 0	(b) 2
4.00	(a) +1	(b) +2		(c) 4	(d) none
	(c) +5	(d) +3	Q.68	Which of the following	is most stable?
0.60	Which has highest boili	ng point?		(a) H <sub>2</sub>	(b) B <sub>2</sub>
Q.00				(c) F <sub>2</sub>	(d) He <sub>2</sub>
			Q.69	Which is maximum solu	uble in CCl <sub>4</sub>
0.04				(a) LiCl	(b) NaCl
Q.61	Which do not follow the	Autbow's rule?		(c) KCl	(d) RbCl
	(a) Ni	(b) Pd	Q.70	How many fluorine ato	ms form axial bonds in
	(c) Pt	(d) Cu		PF <sub>3</sub> Cl <sub>2</sub>	
Q.62	How many Hydrogen b	onds are there in H <sub>3</sub> PO <sub>2</sub>		(a) 0	(b) 1
	:	(b) 2		(c) 2	(d) 3
	(a) 3 (b)	(D) Z	Q.71	What is the conjugate a	acid of $\text{CO}_3^{-2}$ .
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	(a) CO <sub>2</sub>	(b) HCO <sub>3</sub>		(c) 13	(d)none
	(c) $H_2CO_3$	(d) CO <sub>3</sub>	Q.80	The addition of HCI	on acrolein follows which
Q.72	What is the conjugate	base of NH <sup>-2</sup> .		rule?	
	(a) NH₂ <sup>−</sup>	(b) N <sup>-3</sup>		(a) Markownikoff's	rule
	(c) NH	(d) NH <sup>+</sup>		(b) Antimarkownikol	ff's rule TM
0.70		(d) NH4		(c) Saytzeff's rule	(d) Hoffman rule
Q.73	NO <sub>2</sub> is annydride of		0.81	1 If ${}^{20}C = {}^{20}C_{2}$ to the	hen <sup>18</sup> C is equal to
	(a) HNO <sub>3</sub>	(b) HNO <sub>2</sub>	Q.01	(a) 4896	(b) 816
	(c) both	(d) none		(c) 1632	(d) None of these
Q.74	Which is formed predo	ominantly out of followings	Q.82	If ${}^{20}C_r = {}^{20}C_{r+4}$ , then ${}^{r}C_{r+4}$	$C_3$ is equal to
	( i) B <sub>2</sub> H <sub>6</sub>	(ii) AICI <sub>3</sub>		(a) 54	(b) 56
	(iii) BH <sub>3</sub>	(iv) Al <sub>2</sub> Cl <sub>6</sub>		(c) 58	(d) None of these
ſ	(a) (i)&(iv)	(b) (i)&(ii)	Q.83	If ${}^{*}C_{3r} = {}^{*}C_{r+3}$ , then r	(b) 4
	(c) (ii) & (iii)	(d) (ii)&(iv)		(a) $3$	(b) 4 (d) 2
0.75	Which do not show Hy		Q.84	If ${}^{20}C_{r+1} = {}^{20}C_{r-1}$ , then	r is equal to
Q.75	case.	drogen bonding in any		(a) 10	(b) 11
	(a) N			(c) 19	(d) 12
			Q.85	If C (n, 12)= C(n, 8),	then C (22, n) is equal to
	(c) CI	(d) none		(a) 231	(b) 210
Q.76	The type of hybridisation	on of C in $CH_2^-$ is.	0.96	(c) 252	(d) 303
	(a) sp	(b)sp <sup>2</sup>	Q.00	(a) $2m = n$	(b) $2m=n(n+1)$
	(c) sp <sup>3</sup>	(d) none		(c) $2m = n(n-1)$	(d) 2nm (m-1)
Q.77	What is the IUPAC nar	me of	Q.87	If ${}^{n}C_{12} = {}^{n}C_{8}$ , then n=	
	(a) Acetylene	(b)Ethyne		(a) 20	(b) 12
	(c) Eth-1-yne (d	l)2-Butyne		(c) 6	(d) 30
Q.78	What is this	SHAPING YOU	Q.88	$If {}^{n}C_{r} + {}^{n}C_{r+1} = {}^{n+1}C_{x}, t$	then x =
				(a) r	(b) r-1
		lu I	0.80	(c) II If $(a^2-a) \cap (a^2-a)$	(u) $1+1$
ſ	(b) an spiro compound	a	Q.00	(a) 2	(b) 3
	(c) a cyclo compound	(d)none		(c) 4	(d) None of these
Q.79	How many elements d	loes lanthanide series	Q.90	) ${}^{5}C_{1} + {}^{5}C_{2} + {}^{5}C_{3} + {}^{5}C_{4} + {}^{5}C_{4}$	$c_5$ is equal to
	contains?			(a) 30	(b) 31
	(a) 14	(b)15		(c) 32	(d) 33
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Q.91 The value of (1+i) (1+i	²)+(1+i <sup>3</sup> ) (1+i <sup>4</sup> ) is	$(a)^{\frac{\sqrt{5}-1}{2}}$	(b) $\frac{\sqrt{5}+1}{2}$
(a) 2	(b) 0	(c) $\sqrt{5}-1$	(d) None of these
(c) 1	(d) i	(c) $\frac{1}{4}$	
Q.92 If $\frac{3+2i\sin\theta}{1-2i\sin\theta}$ is a real nu $\theta=$	umber and $0 < \theta < 2\pi$ , then	Q.100 The eccentricity of is equal to the dista	nce between the foci is
(a) п	(b) $\frac{\pi}{2}$	(a)	$\frac{\sqrt{3}}{2}$ (b) $\frac{2}{\sqrt{3}}$
	$(d)^{\pi}$	(c)	$\frac{1}{2}$ (d) $\frac{\sqrt{2}}{2}$
(c) $\frac{1}{3}$	(u) $\frac{1}{6}$	O 101 The difference, both	$\sqrt{2}$ (-7 $\frac{3}{3}$
Q.93 lf (1+i) (1+2i)(1+3i) 2×5×10×× (1+n <sup>2</sup> ) is	a = (1+n) = a+ib, then a equal to	axis and the latus re	ectum of an ellipse is
(a) $\sqrt{a^2 + b^2}$	(b) $\sqrt{a^2 - b^2}$	(a) ae	(b) 2ae
(c) a <sup>2</sup> +b <sup>2</sup>	(d) $a^2-b^2$ ING YOU	IR (c) A ae <sup>4</sup> E E R	(d) 2ae <sup>2</sup>
Q.94 If $\sqrt{a + ib} = x + iy$ , then	possible value of $\sqrt{a - ib}$	Q.102 The eccentricity of	the conic $9x^2+25y^2=225$ is
is		(a) 2/5	(b) 4/5
(a) $x^2 + y^2$	(b) $\sqrt{x^2 + y^2}$	(c) 1/3	(d) 1 /5
(c) x+iy	(d) x – iy	(e) 3 /5	
Q.95 For the ellipse $12x^2 + 4$	4x <sup>2</sup> +24x-16y+25=0	Q.103 The latus re 3x <sup>2</sup> +4y <sup>2</sup> -6x+8y-5=0	ectum of the conic D is
(b) lengths of the aver	are $\sqrt{3}$ and 1	(a) 3	(b) $\frac{\sqrt{3}}{2}$
(c)eccentricity = $\int_{-\frac{2}{2}}^{\frac{2}{2}}$	G(d) All of these	$C = \frac{(c)}{\sqrt{3}} = B$	(d) None of these
$\sqrt{3}$		Q.104 The equations of	the tangents to the ellipse
Q.96 The equation of the e	encentricity $\frac{1}{2}$ is	9x <sup>2</sup> +16y <sup>2</sup> =144 from	the point (2, 3) are
(a) $7x^2+2xy+7y^2+10x+$	+10v+7=0	(a) y=3, x=5	(b) x=2, y=3
(b) $7x^2+2xy+7y^2+10x-$	-10v+7=0	(c) x=3, y=2	(d) x+y=5, y=3
(c) $7x^2+2xy+7y^2+10x-$	-10y-7=0	Q.105 Let A = {1, 2, 3} B = following is a function	= { 2, 3, 4}, then which of the ion from A to B?
(d) None of these		(a) {(1, 2) (2, 3) (2,	3) (3,3)}
Q.97 The equation of the $x^2$ $y^2$	circle drawn with the two	(b) {(1, 3) (2, 4)}	
foci of $\frac{x}{y^2} + \frac{y}{b^2} = 1$ as th	e end points of a diameter	(c) {(1, 3) (2, 3) (3,	3)}
is 2 2 2 2	SHAPING YOU	(d) {(1, 2), (2, 3) (3	, 2) (3, 4)}
(a) $x^2+y^2=a^2+b^2$	(b) $x^2+y^2=a^2$	Q.106 If f : $Q \rightarrow Q$ is define	ed as f (x) =x <sup>2</sup> , th <mark>e</mark> n f <sup>-1</sup> (9) is
(c) $x^2+y^2=2a^2$	(d) $x^2+y^2=a^2-b^2$	equal to	
Q.98 The eccentricity of th	e ellipse =1 if its latus –	(a) 3	(b) -3
		(c) {−3, 3}	(d) Ø
(a) $\frac{1}{\sqrt{2}}$	(b) $\frac{\sqrt{3}}{2}$	Q.107 Which one of the fo	ollowing is not a function?
(c) $\frac{1}{2}$	(d) None of these	(a) {(x, y) : x, y∈ R,	x <sup>2</sup> =y}
Q.99 The eccentricity of the	he ellipse, if the distance	(b) {(x, y) : x, y∈ R,	, y <sup>2</sup> =x}
between the foci is e	equal to the length of the	(c) {(x, y) : x, y∈ R,	x=y <sup>3</sup> }
latus- rectum is		(d) {(x, y) : x, y∈ R,	y=x <sup>3</sup> }
NRT India 14/32 Sec-14 RLE	3 Road Near Munshi Pullia, Indira 07275924637, 9	Nagar, Lucknow,Ph:0522-329 415905513	93158, 2714802,07275924537,

Q.108 If $f(x) = cops (log x), then f(x^2) f(y^2) - \frac{1}{2} [f(\frac{x^2}{2^2}] + f(\frac{x^2}{2^2}) $	NTHE-2014			ND-K-IV			
Consider the set of Qu A, then the V (b) $T_{2}^{-1}[T_{2}^{-1}]^{+1}$ EX22 has the value (a) $-2$ (b) $-1$ (c) $1/2$ (c) $1/2$ (d) None of these Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2}[T_{2}^{+1}]^{+1}$ (c) $1/2$ (d) None of these Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2}[T_{2}^{+1}]^{+1}$ (c) $1/2$ (c) $1/3$ (d) None of these Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2}[T_{2}^{+1}]^{+1}$ (c) $1/3$ (d) None of these Q.110 Let f (x) = [x - 1]. Then (a) $1/x^{2} = (T(x))^{2}$ (b) f (x*y) = f (x) f (y) OUP (c) $T_{2}^{-1}(T_{2})^{-1}$ (c) $1/2$ (c) $1/6$ (c) $7.36$ (c) $7.36$ (c) $1/12$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $5.736$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $1/12$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $1/12$ (c) $1/6$ (c) $1/2$ (c) $1/6$ (c) $1/12$ (c) $1/6$ (c) $1/12$ (c) $1/18$ NRT india $1/322$ Sec. 14 RLB Read Near Munshi Pullia, Indira Nagar, Lucknow, Ph0522-3293158, 2714802,07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537, 07275924537,	0.100 If f (y) = and (log y) 4	then f $(x^2)$ f $(x^2) = \frac{1}{2} \int f(x^2) dx^2$					
curve field the veloce       probability a total score of 5 is         (a) $-2$ (b) $-1$ (c) $1/16$ (c) $1/12$ (c) $1/2$ (d) None of these       (c) $1/3$ (d) None of these         Q.103 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2} \{f(\frac{x}{y}) + f(x) f(y) - \frac{1}{2} \{f(\frac{x}{y}) + \frac{1}{2} \{f(\frac{x}{y}) + f(x) f(y) - \frac{1}{2} \{f(\frac{x}{y})$	Q.100  II I (X) = CPS (IOG X), 1	$\lim_{x \to \infty}  f(x)  = \frac{1}{2} \left\{ \left[ \frac{1}{y^2} \right] + \frac{1}{2} \right\}$	Q.117 Two dice are	thrown simultaneously. The			
(a) $-2$ (b) $-1$ (a) $1/18$ (b) $1/12$ (c) $1/2$ (d) None of these (c) $1/9$ (d) None of these Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2} [r(\frac{2}{x}) + Q.118$ Two dice are thrown simultaneously. The probability of obtaining a total score of seven is (a) $-1$ (b) $1/2$ (c) $-2$ (d) None of these Q.110Let f (x) =  x - 1 . Then (a) $1 (x^2) = (1/x)^2$ (b) f (x+y) = f (x) f (y) <b>QUR</b> (a) $1/9 = \text{Rec}$ (b) $1/12$ (c) $-2$ (d) None of these Q.110Let f (x) =  x - 1 . Then (a) $1 (x^2) = (1/x)^2$ (b) f (x+y) = f (x) f (y) <b>QUR</b> (a) $1/9 = \text{Rec}$ (b) $1/12$ (c) $1 (x) =  f(x) $ (d) None of these Q.110 Let f (x) =  x - 1 . Then (a) $1 (x^2) = (1/x)^2$ (b) f (x+y) = f (x) f (y) <b>QUR</b> (b) $1/9 = \text{Rec}$ (b) $1/12$ (c) $1 (x) =  f(x) $ (d) None of these Q.120 A card is drawn at random from a pack of 100 cards numbered 1 to 100. The probability of drawing a number which is a square is VI (c) (cos 1, -cos 1, 1) (d) (-1, 1) (a) $1/5$ (b) $2/5$ Q.112 Which of the following are functions? (c) $(x, y) : x^2 + y^2 = 1, x, y \in \mathbb{R}$ (b) $(x, y) : y =  x $ , $x, y \in \mathbb{R}$ (c) $1/10$ (d) None of these (a) $\{(x, y) : x^2 + y^2 = 1, x, y \in \mathbb{R}\}$ (d) $(x, y) : y =  x $ $x, y \in \mathbb{R}$ (c) $(x, y) : x^2 + y^2 = 1, x, y \in \mathbb{R}$ (b) $((x, y) : y =  x $ $x, y \in \mathbb{R}$ (c) $3(x)$ (d) $-f(x)$ Q.113 Iff (x) = log $(\frac{1+x}{2})$ and g (x) $=\frac{3+x^2}{1+3x^2}$ ; then f $(g(x))$ $=\frac{3+x^2}{2+x^2}$ is equal to (a) $1(3x)$ (b) $(f(x))^3$ (c) $3(x)$ (d) $-f(x)$ Q.114 If A = $1, 2, 3$ , B = $x, y$ , then the number of functions that can be defined from A into B is (a) $1/2$ (b) $8$ (c) $6$ (d) $3$ Q.115 One card is drawn from a pack of 52 cards; <b>OUR CAREER</b> The probability that it is the card of a king or spade is (a) $1/4$ (b) $3/4$ (c) $1/2$ (c) $1/8$ NRT India 14/32 Sec-14 RB Road Near Munshi Pulla, Indira Nagar, Luchaw, Ph:0522-3293158, 2714802,07275924537, 027275924537, 027275924537, 027275924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 04725924537, 047259245	IXZYZ HAS the value		probability a total s	core of 5 is			
(c) $1/2$ (d) None of these Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2} [f(\frac{1}{2}) + Q.118$ Two dice are thrown simultaneously. The fr(xy) has the value (a) $-1$ (b) $1/2$ (c) $-2$ (d) None of these Q.110 Let f (x) = x - 11. Then (a) $f(x^2) = f(x)$ ? (b) f (x+y) = f (x) f (y) OUR (a) $1/9$ ER (b) $1/12$ (c) $f(x) =  f(x) ^2$ (b) f (x+y) = f (x) f (y) OUR (a) $1/9$ ER (b) $1/12$ (c) f (x) =  f(x) ^2 (b) f (x+y) = f (x) f (y) OUR (a) $1/9$ ER (b) $1/12$ (c) f (x) =  f(x)  (d) None of these Q.1110 The range of the following are functions ? (a) $(-1, 1, 0)$ (b) (cos1, cos2, 1) (c) cos1, $-\cos 1, 1$ (d) $(-1, 1)$ (a) $1/5$ (b) $2/5$ Q.112 which of the following are functions? (a) $(x, y) : x^2 + y^2 = 1, x, y \in R$ (b) $((x, y) : y =  x $ , $x, y \in R$ ? (c) $((x, y) : x^2 + y^2 = 1, x, y \in R) = (d)$ ((x, y) : x $-y^2 = 1, x, y \in R$ ) (b) $((x, y) : y =  x $ , $x, y \in R$ (c) $(13)$ (fr(x)) $ad g(x) = \frac{1+8\pi^2}{1+8\pi^2}$ , then f (g(x)) $= \frac{31+8\pi^2}{1+8\pi^2}$ is equal to (a) f(3x) (b) f(f(x))^3 Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards: OUR CAREER The probability that it is the card of a king or spade is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RB Road Near Munshi Pullia, Indira Nagar, Lucknow, Ph:0522-3293158, 2714802,07275924537, 027275	(a) −2	(b) -1	(a) 1/18	(b) 1/12			
Q.109 If f (x) = cos (log x), then f (x) f (y) $-\frac{1}{2} [f(\frac{2}{x}) +$ Q.118 Two dice are thrown simultaneously. The probability of obtaining a total score of seven is probability of obtaining a total score of seven is (a) 5.36 (b) 6.36 (c) 7.36 (c) 8.36 (c) 8.	(c) 1 /2	(d) None of these	(c) 1 /9	(d) None of these			
(a) -1 (b) 1/2 (c) 7/36 (c) 6/36 (c) 7/36 (c) 8/36 (c) 8	Q.109 If f (x) = cos (log x), f(xy) has the value	, then f (x) f (y) $-\frac{1}{2}\left\{f\left(\frac{x}{y}\right)+\right.$	Q.118 Two dice are probability of obtair	thrown simultaneously. The ning a total score o <mark>f</mark> seven <mark>is</mark>			
(a) $-1$ (b) $1/2$ (c) $7/36$ (d) $8/36$ (c) $-2$ (d) None of these Q.110Letf (v) =  x - 1 . Then (a) $f(x^2) = f(x)/2$ (b) $f(x+y) = f(x) f(y) OUR (a), 1/2 ER (b) 1/12 (c) 1/6 (d) 5/36Q.111 The range of the following are functions ?(a) \{-1, 1, 0\} (b) (cost, cos2, 1\} (c) 1/6 (d) 5/36Q.120 A card is drawn at random from a pack of 100cards numbered 1 to 100. The probability ofdrawing a number which is a square is V(c) (cos 1, -cos 1, 1) (d) \{-1, 1\} (a) 1/5 (b) 2/5Q.112 which of the following are functions?(c) (cos 1, -cos 1, 1) (d) \{-1, 1\} (a) 1/5 (c) 2/5Q.112 which of the following are functions?(c) ((x, y) : y^2 = x, x, y \in \mathbb{R}) (d) ((x, y) : y =  x , x, y \in \mathbb{R})(c) ((x, y) : x^2 + y^2 = 1 x, y \in \mathbb{R}) (d) ((x, y) : y =  x , x, y \in \mathbb{R})(c) ((x, y) : x^2 + y^2 = 1 x, y \in \mathbb{R}) (d) ((x, y) : y =  x , x, y \in \mathbb{R})(c) ((x, y) : x^2 + y^2 = 1 x, y \in \mathbb{R}) (d) ((x, y) : y =  x , x, y \in \mathbb{R})(c) ((x, y) : x^2 + y^2 = 1 x, y \in \mathbb{R}) (d) ((x, y) : y =  x , x, y \in \mathbb{R})(c) ((x, y) : (x) = (x) + (x) +$			(a) 5/36	(b) 6/36			
(c) $-2$ (d) None of these Q.110Let f (x) = [x - 1]. Then (a) f (x <sup>2</sup> ) = [f(x)] (b) f (x+y) = f (x) f (y) OUR (a) f.79 ER (b) 1/12 (c) f ([x]) = [f(x)] (d) None of these Q.119 The probability of getting a total of 10 in a single throw of two dice is (c) f ([x]) = [f(x)] (d) None of these Q.110 A card is drawn at random from a pack of 100 cards numbered 1 to 100. The probability of drawing a number which is a square is v (c) (cos 1, -cos 1, 1) (d) (-1, 1) (a) 1/5 (b) 2/5 Q.112 which of the following are functions? (c) ([x, y) : y <sup>2</sup> = x, y \in R] (b) ([x, y] : y = [x], x, y \in R] (c) ([x, y) : y <sup>2</sup> = x, y \in R] (b) ([x, y] : y = [x], x, y \in R] (c) ([x, y) : y <sup>2</sup> = x, y \in R] (b) ([x, y] : y = [x], x, y \in R] (c) ([x, y] : y <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R] (b) ([x, y] : y = [x], x, y \in R] (c) 3f(x) (d) -f(x) Q.113 If f(x) = log ( $\frac{1+2}{1-3}$ ) and g (x) = $\frac{3x+x^2}{1+3x^2}$ , then f (g(x)) $= \frac{5x+x^2}{1+3x^2}$ is equal to (a) f(3x) (b) (f(x)) <sup>3</sup> (c) 3f(x) (d) -f(x) Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards: OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 (c) 3/14 (c) 1/2 (d) 1/8 NRT india 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a) -1	(b) 1/2	(c) 7/36	(d) 8/36			
C.110LBT ( $y =  x - 1 $ , Then       throw of two dice is         (a) f ( $x^2$ )= (f( $x$ )] <sup>2</sup> (b) f ( $x+y$ )= f ( $x$ ) f ( $y$ )OUR       (a) T/9 ER       (b) 1 /12         (c) f ( $x$ )) =  f( $x$ )       (d) None of these       (c) 1 /6       (d) 5 /36         Q.111 The range of the following are functions ?       (c) 1 /6       (d) 5 /36         (a) {-1, 1, 0}       (b) (cos1, cos2, 1)       (c) 1 /6       (d) 5 /36         (c) ( $x, y$ ) : $y^2 = x, x, y \in R$ )       (b) ( $x, y$ ) : $y =  x $ ,       (c) 1 /10       (d) None of these         (a) ( $x, y$ ) : $y^2 = x, x, y \in R$ )       (b) ( $(x, y)$ : $y =  x $ ,       (c) 1 /10       (d) None of these         (a) ( $(x, y)$ : $x^2 + y^2 = 1, x, y \in R$ )       (c) ( $(x, y)$ : $x^2 + y^2 = 1, x, y \in R$ )       (c) ( $(x, y)$ : $x^2 + y^2 = 1, x, y \in R$ (c) ( $(x, y)$ : $x^2 + y^2 = 1, x, y \in R$ )         (a) f(3x)       (b) (f(x)) <sup>3</sup> (c) 3f(x)       (d) -f(x)       (d) -f(x)         Q.113 If f(x) = log ( $\frac{1+x}{1-x}$ ) and g ( $x) = \frac{3x + x^3}{1 + 1 + 2^3}$ , then f (g(x))       = \frac{3x + x^3}{1 + 1 + 3^3} is equal to       (a) f(3x)       (b) (f(x)) <sup>3</sup> (c) 3f(x)       (d) -f(x)       (d) -f(x)       (d) -f(x)       (d) 1/8       TM         Q.114 If A = {1, 2, 3}, B = {8, y, y, then the number of functions that can be defined from A into B is       (a) 1/2       (b) 3 /26       (c) 4 /13       (d) 3 /13       TM	(C) = 2	(d) None of these	Q.119 The probability of	<mark>getting a</mark> total of 10 in a single			
(a) $f(x) = (f(x))$ (b) $F(x+y) = F(x) + (y)$ OCK (a) $f(y) = F(x)$ (b) $1/12$ (c) $f(x) =  f(x) $ (d) None of these Q.111 The range of the following are functions ? (a) $\{-1, 1, 0\}$ (b) $\{\cos 1, \cos 2, 1\}$ (c) $1/6$ (c) $1/70$ (c) $1/$	Q.110Let f (x)= $ x - 1 $ . Then		throw of two dice is				
(c) $f( x ) =  f(x) $ (d) None of these (c) $f( x ) =  f(x) $ (d) None of these (c) $f( x ) =  f(x) $ (d) None of these (c) $f( x ) =  f( x ) $ (d) $f( x ) = f( x )$ (c) $f( x ) = f( x ) = f( x )$ (f( x )) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )) = f( x ) = f( x ) (f( x )	(a) $f(x) = {f(x)}$	(D) $T(X+y) = T(X) T(y) = 0$	R (a) 1/9 ER	(b) 1/12			
Q.111 The range of the following are functions? (a) {-1, 1, 0} (b) {cos1, cos2, 1} (c) {cos 1, -cos 1, 1} (d) {-1, 1} (a) 1/5 (b) 2/5 Q.112 which of the following are functions? (a) {(x, y) : $y^2 = x, x, y \in \mathbb{R}$ } (b) {(x, y) : $y =  x $ , $x, y \in \mathbb{R}$ (c) {(x) y) : $x^2 + y^2 = 1, x, y \in \mathbb{R}$ } (d) {(x, y) : $y =  x $ , $x, y \in \mathbb{R}$ (c) {((x) y) : $x^2 + y^2 = 1, x, y \in \mathbb{R}$ } (d) {(x, y) : $y =  x $ , $x, y \in \mathbb{R}$ (c) {((x) y) : $x^2 + y^2 = 1, x, y \in \mathbb{R}$ } (d) (x, y) : $y =  x $ , $x, y \in \mathbb{R}$ (c) {(1/10 (d) None of these (a) {(x, y) : $y^2 = x, x, y \in \mathbb{R}$ } (d) (x, y) : $y =  x $ , $x, y \in \mathbb{R}$ (c) {(1/3) (f) (1/3) (d) $-f(x)$ Q.113 Iff (x) = log $\frac{(1+x)}{(1-x)}$ and g (x) $= \frac{3x+x^3}{1+3x^2}$ , then f (g(x)) $= \frac{3x+x^3}{1+3x^2}$ is equal to (a) f(3x) (b) (f(x))^3 (c) 3f(x) (d) $-f(x)$ Q.114 If $A = \{1, 2, 3\}, B = \{x, y\}$ , then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (c) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 02275924637, 9415905513	(c) $f( x ) =  f(x) $	(d) None of these	(c) 1/6	(d) 5/36			
(a) $\{-1, 1, 0\}$ (b) $\{\cos 1, \cos 2, 1\}$ (c) $\{\cos 1, \cos 2, 1\}$ (d) $\{-1, 1\}$ (e) $\{\cos 1, -\cos 1, 1\}$ (d) $\{-1, 1\}$ (e) $\{\cos 1, -\cos 1, 1\}$ (d) $\{-1, 1\}$ (e) $\{\cos 1, -\cos 1, 1\}$ (d) $\{-1, 1\}$ (e) $\{1, 2\}$ (f) $\{1, 3\}$ (f) $\{2, 3\}$ (f) $\{3, 3$	Q.111 The range of the follo	wing are functions ?	Q.120 A card is drawn a	at random from a pack of 100			
(c) {cos 1, $-cos 1, 1$ } (d) {-1, 1} (a) 1/5 (b) 2/5 (c) {cos 1, $-cos 1, 1$ } (d) {-1, 1} (a) 1/5 (b) 2/5 (c) 1/10 (d) None of these (a) {(x, y): y <sup>2</sup> = x, x y \in R} (b) {(x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x, y): y =  x , x, y \in R} (c) {(x, y): x <sup>2</sup> + y <sup>2</sup> = 1, x, y \in R} (d) (x) = ((x, y)): x = (x, y), y = (x	(a) {-1, 1, 0}	(b) {cos1, cos2, 1}	drawing a number	which is a square is			
Q.112 which of the following are functions? (a) {(x, y) : $y^2 = x, x, y \in \mathbb{R}$ } (b) {(x, y) : $y =  x $ , x, $y \in \mathbb{R}$ (c) {(x, y) : $x^2 + y^2 = 1, x, y \in \mathbb{R}$ } (d) ((x, y) : $y =  x $ , $x^2 - y^2 = 1, x, y \in \mathbb{R}$ Q.113 If f (x) = log $\left(\frac{1+x}{1-x}\right)$ and g (x) $=\frac{3x+x^3}{1+3x^2}$ , then f (g(x)) $=\frac{3x+x^3}{1+3x^2}$ is equal to (a) f(3x) (b) (f(x))^3 (c) 3f(x) (d) -f(x) Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow, Ph:0522-3293158, 2714802,07275924537, 07275924537, 9415905513	(c) $\{\cos 1, -\cos 1, 1\}$	(d) {-1, 1}	(a) 1 /5	(b) 2/5			
(a) { (x, y) : $y^2 = x, x, y \in \mathbb{R}$ (b) { (x, y) : $y =  x $ , x, y $\in \mathbb{R}$ (c) { (x, y) : $x^2+y^2 = 1, x, y \in \mathbb{R}$ (d) (x, y) : <b>CARE SPACE FOR ROUGH WORK</b> $x^2-y^2 = 1, x, y \in \mathbb{R}$ Q.113 If f (x) = log $(\frac{1+x}{1-x})$ and g (x) = $\frac{3x+x^3}{1+3x^2}$ , then f (g(x)) = $\frac{3x+x^3}{1+3x^2}$ is equal to (a) f(3x) (b) (f(x))^3 (c) 3f(x) (d) -f(x) Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. <b>OUR CAREER</b> The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RIB Road Near Munshi Pullia, Indira Nagar, Lucknow, Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	Q.112 which of the following	are functions?	(c) 1 /10	(d) None of these			
CARE SPACE FOR ROUGH WORK $(x^2-y^2 = 1, x, y \in R)$ (d) $(x, y)$ : $(x, y) : R$ CARE SPACE FOR ROUGH WORK $(x^2-y^2 = 1, x, y \in R)$ Q.113 If $f(x) = log(\frac{1+x}{1-x})$ and $g(x) = \frac{3x+x^3}{1+3x^2}$ , then $f(g(x))$ $= \frac{3x+x^3}{1+3x^2}$ is equal to (a) $f(3x)$ (b) $(f(x))^3$ (c) $3f(x)$ (d) $-f(x)$ Q.114 If $A = \{1, 2, 3\}, B = \{x, y\}$ , then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) $4/13$ (d) $3/13$ Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) $1/2$ (d) $1/8$ NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a) { (x, y) : $y^2 = x, x, y$ x, y $\in R$ }	$f \in R$ (b) $\{(x, y) : y =  x ,$					
$=\frac{3x+x^2}{1+3x^{2'}}$ is equal to (a) f(3x) (b) (f(x))^3 (c) 3f(x) (d) -f(x) Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. <b>OUR CAREER</b> The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(c) {(x, y) : $x^2+y^2 = 1, x, x^2-y^2 = 1, x, y \in R$ } Q.113 If f (x)= log $\left(\frac{1+x}{1-x}\right)$ and	$y \in R$ $(d)_{IG} \{(x, y) :$ $g(x) = \frac{3x + x^3}{1 + 3x^2}$ , then $f(g(x))$	CARE SPACE FOR	ROUGH WORK			
(a) $f(3x)$ (b) $(f(x))^3$ (c) $3f(x)$ (d) $-f(x)$ Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. <b>OUR CAREER</b> The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 9415905513	$=\frac{3x+x^3}{1+3x^{2'}}$ is equal to						
<ul> <li>(c) 3f(x)</li> <li>(d) -f(x)</li> <li>Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is</li> <li>(a) 12</li> <li>(b) 8</li> <li>(c) 6</li> <li>(d) 3</li> <li>Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is</li> <li>(a) 1/26</li> <li>(b) 3 /26</li> <li>(c) 4 /13</li> <li>(d) 3 /13</li> <li>Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is</li> <li>(a) 1/4</li> <li>(b) 3 /4</li> <li>(c) 1 /2</li> <li>(d) 1 /8</li> </ul> NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a) f(3x)	(b) $(f(x))^3$		TM			
Q.114 If A = {1, 2, 3}, B = {x, y}, then the number of functions that can be defined from A into B is (a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. <b>OUR CAREER</b> The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 9415905513	(c) 3f(x)	(d) -f(x)					
(a) 12 (b) 8 (c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1 /26 (b) 3 /26 (c) 4 /13 (d) 3 /13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1 /4 (b) 3 /4 (c) 1 /2 (d) 1 / 8 NRT India 14/32 Sec.14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	Q.114 If A = $\{1, 2, 3\}$ , B = $\{$ functions that can be d	x, y}, then the number of efined from A into B is					
(c) 6 (d) 3 Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a) 12	(b) 8					
Q.115 One card is drawn from a pack of 52 cards. OUR CAREER The probability that it is the card of a king or spade is (a) 1/26 (b) 3/26 (c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	( <mark>c</mark> ) 6	(d) 3					
(a) 1 /26 (b) 3 /26 (c) 4 /13 (d) 3 /13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1 /4 (b) 3 /4 (c) 1 /2 (d) 1 / 8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	Q.115 One card is drawn The probability that it spade is	from a pack of 52 cards. OU is the card of a king or	R CAREER				
(c) 4/13 (d) 3/13 Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a)1 /26	(b) 3/26					
Q.116 Two dice are thrown together. The probability that at least one will show its digit greater than 3 is (a) 1/4 (b) 3/4 (c) 1/2 (d) 1/8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(c) 4 /13	(d) 3/13		——— TM			
is (a) 1 /4 (b) 3 /4 (c) 1 /2 (d) 1 / 8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	Q.116 Two dice are thrown that at least one will sh	together. The probability now its digit greater than 3					
(a) 1 /4 (b) 3 /4 (c) 1 /2 (d) 1 / 8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	is						
(c) 1 /2 (d) 1 / 8 NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(a) 1 /4	(b) 3/4					
NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513	(c) 1 /2	(d) 1/8					
	NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637, 9415905513						

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	(c) Gastrovascular cavity of Hydra
	(d) Typhlosole of Earthworm
	Q 22 Sobizont store in life such of molecial perceit
	(c) En throu too of mon
	(a) Erythrocytes of man
	(b) Stomach of Anopheles
	(c) Blood of man
	(d) Salivary glands of Anopheles.
	Q.83 Sir Ronald Ross is famous for discovery of
	(a) Malaria being due to a protest
_	(b) Species of Plasmodium
SHAPING YOU	(c) Malaria spread due to foul air
	(d) Malaria transmission through Anopheles
	Q.84 Common trait between Amoeba and leucocyte is
	(a) Encystment (b) Pseudopodia
	(c) Sporulation (d) Contr <mark>a</mark> ctile vacuole
	Q.85 Sporozoans have Locomotory organs
	(a) Pseudopodia (b) Cilia
	(c) Flagella (d) None of the above
	Q.86 Most of algae are:
SHAPING YOUR	(a) Aquatic (b) Epiph <mark>y</mark> tic
	(c) Alpine (d) Terrestrial
	Q.87 The basal-cell by which an alga is attached to its
	(a) Intercalary cell (b) Holdfast
	(c) Rhizoid (d) Hypha
	Q.88 Among the algae kelps are :
	(a) The smallest (b) Smaller
	(c) The largest (d) Rudimentary
	space flight. It is :
	(a) Ulothrix (b) Spirogyra
	(c) Nostoc (d) Chlorella
SHAPING YOU	Q.90 Antibiotic has been extracted from:
	(a) Chlorella (b) Spirogyra
	0.01 The total consumption of fartilizers in our country
	is about
	(a) 9.2 M Tonnes (b) 19.2 M Tonnes
	(c) 119.2 M Tonnes  (d) None of the abo <mark>ve</mark>
Biology	Q.92 Which one of the following has been introduced
081 Contracile vacuales of Parameeium are	chemical fertilizers
	(a) Green manure (b) Biofertilizers
(a) Sweet alanda of mammala	(c) Both (a) and (b) (d) None of the above
NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira N 07275924637. 94:	agar, Lucknow,Ph:0522-3293158, 2714802,07275924537, L5905513

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Q.93	Manure containing a mixture of cattle of dung and crop residues is known as (a) Green manure	<ul><li>Q.104 Zygomorphic flowers with descending imbricate aestivation is the characteristic feature of family</li><li>(a) Papilionatae</li><li>(b) Malvaceae</li></ul>					
	(b) Fram Yard Manure (FYM)	(c) Mimosoideae (d) Ranunculaceae					
Q.94	The increase in crop yield with green manure is usually	Q.105 Which mineral element is essential for the activity of the enzyme <i>nitrate reducta</i> se?					
	(a) Nil (b) 30-50% (c) 100-150% (d) 200-250%	(a) Molybdenum (b) Iron (c) Zinc (d) Calcium					
Q.95	A green manure supplies (a) Organic matter (b) Additional nitrogen (c) Protects soil against crossion and leaching	Q.106 Which mineral element is essential for the activity of enzyme aconitase?					
0.00	(d) All of the above	(a) Molybdendin (b) from (c) Zinc (d) Calcium					
Q.96	manures	R enzyme enolase:					
	(a) Crotalaria juncea (b) Melliotus parviliora	(a) Magnesium (b) Manganese					
0.97	A legume having symbiotic association with	Q 108 Enzymes were discovered from the first time					
Q.07	Rhizobium and Aerorhizobium is	(a) Yeast (b) Maize					
	(a) Crotalaria juncea	(c) Bacteria (d) Algae					
	(b) Cyamopsis tetragonoloba	Q.109 An enzyme extract when subjected to electric					
	(c) Sesbania aculeata	field, separates into two functions each					
	(d) Sebania rostrata	catalyzing the same reaction. These fractions					
Q.98	Types of manures are	are					
	(a) Farm Yard Manure	(a) Allosteric enzyme (b) Isoenzyme					
	(b) Green Manure	(c) Coenzyme (d) Inducible					
	(c) Both (a) and (b) SHAPING YOUR	Q.110The term enzyme was proposed by					
0.00	(d) None of the above	(a) Kuhne (b) Northrop					
Q.99	l'etramerous flowers naving bicarpellary,	(C) Kunitz (d) Summer					
	beginning but becomes bilecular later, owing to	Q.111 Who showed that besides living yeast cells even their exact (name – zymase) could bring					
	the formation of false sentum called replum are	about alcohol fermentation					
	the salient features of the family	(a) Buchner (b) Sumner					
	(a) Leguminosae (b) Malvaceae	(c) Kurosawa (d) Havashi					
	(c) Solanaceae (d) Cruiferae	Q.112Name the scientist who far the first time isolated					
Q.100	Cruciform corolla and tetradynamous condition	and purified enzyme urease in crystalline form					
	of stamens is found in	Jack bean (Canavalia ensiformus) :					
	(a) Solanum nigrum (b) Cosmos	(a) Summer (1926) (b) Kuhne (1882)					
	(c) Allium cepa (d) Brassica campestris	(c) Kurosawa (1926) (d) Hayashi (1826)					
Q.101	Sliqua or silicula is the fruit of IAPING YOU	Q.113Who defined enzyme as a protein with catalytic					
	(a) Cruciferae (b) Malvaceae	properties due to its power of specific activation					
0 102	(c) Liliaceae (d) Caesalpiniodeae	(a) Dixon and Wed (b) Sumner					
Q. 102	condition of stamons is characteristic feature of	(C) FISCHEI (C) Palade					
	a family	non-competitively hinds to the molecule othe					
	(a) Liliaceae (b) Malvaceae	than a substrate is called					
	(c) Leguminosae (d) Solanaceae	(a) Allosteric site (b) Isomeric site					
Q.103	Presence of staminal tube through which style	(c) Trichome site (d) None of these					
	passes is found in	Q.115Movements which take place without any					
	(a) Nicotiana (b) Asparagus	external stimuli are called					
	(c) Hibiscus (d) Pisum	(a) Spontaneous (b) Induced					
		(c) Tropic (d) Seismonastic					
NR	NRT India 14/32 Sec-14 RLB Road Near Munshi Pullia, Indira Nagar, Lucknow,Ph:0522-3293158, 2714802,07275924537, 07275924637. 9415905513						

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O 116 Movements which are caused by some external	(a) Envelope (b) Mail				
stimulus are called	(c) Stamp (d) Letter-box				
(a) Autonomic movement	Q 127 Session : Concludes : · ? Lapses				
(b) Paratonic movement	(a) Leave (b) Permit				
(c) Amoeboid movement	(c) Agency (d) Policy				
(d) Excretory movement	Q.128 Food : Menu :: Library : ?				
Q.117Movement to perisomial teeth of moss is	(a) Books (b) Librarian				
(a) Movement of locomotion	(c) Catalogue (d) Shelf				
(b) Hygroscopic movement	Q.129 Victor : Happiness : : Failure :?				
(c) Hydrotropic movement	(a) Anger (b) Badness				
(d) None of the above	(c) Frustration (d) Defeat				
Q.118Tactic movements are	Q.130 River : Dam : : Traffic : ?				
(a) Movements of curvature	(a) Signal (b) Vehicle				
(b) Growth movements	(c) Motion (d) Lane				
(c) Movements of locomotion having no	Direction – In each question from 131 to 139, which				
(d) Movement of locomotion induced by	O 131 Padical - Moderate : Povolution: 2				
unidirectional external stimulus	(a) Change (b) Chaos				
Q 119Tactic movement are	(c) Peace (d) Reformation				
(a) Hyponastic and epinastic	Q.132 Death : Gallows : : Criminal : ?				
(b) Phototropic, thermotactic and thigmotropic	(a) Crime (b) Jailor				
(c) Phototropic, thermotactic and chemotactic	(c) Jail (d) Judge				
(d) Geotactic, hydrotropic and thigmotactic	Q.133 Wax : Wane : : Zenith : ?				
Q.120The movement in zoospores and gametes from	(a) Nadir (b) Bottom				
vey weak and very strong light to the place of	(c) Fall (d) Depth				
favourable light is a movement called	Q.134 Ophthalmia : Eye : : Rickets : ?				
(a) Phototropic S(b) Phototactic YOUR	C ∧ (a) Child (b) Bone				
(c) Seismonastic (d) Thermotactic	(c) Body (d) Kidney				
	Q.135 Botanist : Sociologist : : Plant : ?				
Directions:- (Q 121 to130 ) In each of the following	(a) Women (b) Problem				
questions there are two words to the left of	(c) Sociology (d) Society				
way The same relationship obtains between	(a) Irritated (b) Hehappy				
the third word and one of the four	(a) Initiated (b) Onitappy				
alternatives under it. Find the correct	0 137 Summer is related to winter in the same way as				
alternative in each case.	river is related to?				
Q.121 When : Whe <mark>re : : Time</mark> 4 L ?	(a) Agriculture (b) Trees				
(a) Reason (b) Process	(c) Arid (d) Bank				
(c) Place (d) Length	Q.138 Librarian is related to Books in the same way				
Q.122 Sedative : Pain : : Solace :? HAPING YOU	bankers is related to?				
( <mark>a)</mark> Hurt (b) Grief	(a) Debtor (b) Money				
(c) Irritation (d) Kill	(c) Bank (d) Customer				
Q.123 Play : Director : : Newspaper : ?	Q.139 Novelist is related to poet in the same way				
(a) Owner (b) Editor	milkman is related to?				
(c) Manger (d) Columnist	(a) Cow (b) Cobber				
Q.124 Cunning : Fox : 1 Imid: ?	(c) Dairy (d) Children				
(c) Leopard (d) Ass	which is analogous to the first two				
Q 125 Medicine · Sickness· · Book · ?	O 140 Sculptor · Statur · · Post · ?				
(a) Ignorance (b) Knowledge	(a) Chisel (b) Pen				
(c) Author (d) Teacher	(c) Verse (d) Canvas				
Q.126 Coconut : Shell : : Letter : ?	Q.141 Growth : Death : : Increase : ?				
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	(a) Ease	(b) Tease		(a)	Неар	(b) Building		
0.440	(c) Decrease	(d) Cease	0 450	(C)	Clay	(d) Mason		
Q.142	2 Flying : Bird : : Cree	ping : ?	Q.156	Inte	elligent is related	to clever in	the same	e way
	(a) Aeropiane	(b) Shall		as	dull is related to -	-		
0.440	(c) Ground	(d) Flower		(a)	Idiot	(b) Cunning		
Q.143	Bread : Bed , Four, I	For, wheat,?	Dine of	(C)	SIOW	(d) Foolish		41 4
	(a) Wet	(b) What	Direct	ion	: In question	157 to 160	) select	that
0.444	(C) Whet	(d) Heat		alte	ernative which	is analogous	s to the	first
Q.144	Fouch : Feel : : Gree		0.457	two		<b>T</b> 1 1 0		
	(a) Smile	(b) Acknowledge	Q.157	Sug	ggest : Demand: :	Take:?		
0.445	(c) Success	(d) Manners		(a)	Give	(b)Grab		
Q.145	CAT is related to K	ITTEN IN THE SAME way as	0.450	(C)	Receive			
	WOMEN is related t		Q.158	De	ep : Snallow : : Fr	eedom : ?		
				(a)	Democracy	(b) Convict		
0.440	(C) CALF		0.450	(C)	Prison	(a) Discipline	e	
Q.146	AMBER is related	to YELLOW colour in the	Q.159	Ge		:: Mirage :		
	same way as CARN	IINE is related to –		(a)	Illusion	(b) Image		
	(a) RED	(b) GREEN		(C)	Hideout	(d) Reflectio	n	
	(c) BLUE	(d) ORANGE	Q.160	Rea	ading : Knowledg	e : : Work :?	TM	
Q.147	Horse is related to	Hoof in the same way as		(a)	Experiment	(b) Employr	nent VI	
	Eagle is related to –			(c)	Experience	(d) Engagen	nent	
	(a) Claw	(b) Clutch						
	(c) Leg	(d) Foot						
Q.148	3 Dogs ba <mark>rk so also g</mark>	oats –						
	(a) Bleat	(b) Crow						
	(c) Grunt	(d) Howl						
Q.149	Cuboid is related to	square in the same way as	C/	<b>NR</b>	EER			
	square is related to	_						
	(a) Plane	(b) Triangle						
	(c) Line	(d) Point						
Q.150	Much is related to	Many in the same way as						
	measure is related	to —					TM	
	(a) Count	(b) Calculate						
	(c) Measure	(d) Weight						
Q.151	Driving is related to	bus in the same way as						
	flying is related to -							
	(a) Air	(b) Kite						
	(c) Bird	(d) Aeroplane						
Q.152	Patient is related to	doctor in the same way as						
	student is related to	SHAPING YOU	IR	C/A	REER			
	(a) School	(b) Teacher						
	(c) Book	(d) Class mates						
Q.153	3 Yes is related to No	in the same way as alive is						
	related to -						T.N. A	
1	(a) Dead	(b) Life					IVI	
	(c) Live	(d) Funeral						
Q.154	Kathak is related to	Outtar Pradesh in the same						
	way as Oddisy is rel	ated to –						
	(a) Assam	(b) Gujrat						
-	(c) Orissa	(d) Maharashtra						
Q.155	5 Chapter is related t	o book in the same way as						
	brick is related to -							
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						105 A	106.B	107.A	108.A
		Answe	r Sheet			109.B	110.A	111.A	112.A
	1 1	2 ^	3 B	4 C		113.B	114.A	115.A	116.B
1		2. 7	<b>J</b> . D	4. 0		117.B	118.D	119.C	120.B
	5. A	6. D	7. D	8. C		121 C	122 B	123 B	<b>T</b> 124 D
	9. D	10. A	11. D	12. C		125 A	126 A	127 D	128 C
	13. D	14. A	15. C	16. D		129 B	130 A	131 C	132 C
	17. A	18. D	19. A	20. C		133 A	134 B	135 D	136 D
	21. C	22. B	23. C	24. C		1270	129 P	120 R	1400
	25. C	26. A	27. CAP	28. C	YOUR	CARE	IER	1390	1400
	29. A	30. D	31. A	32. B		141 D	142 B	143 A	144 D
	33. B	34. C	35. B	36. D		145 D	146 A	147 A	148 A
	37. A	38. D	39. D	40. A		149 C	150 A	151 D	152 B
	11	12	13	44		153 A	154 C	155 B	156 D
	<b>7</b> 1.	<b>72</b> .				157 D	158 D	159 A	160 C
	<b>81</b> . B	82 B	83. L	84. A					
	85. A	86. C	87. A	88. D		ADEE	_		
	89. B	90. B		92. A	JUR C		IN.		
	93. C	94. D	95. D	96. B					
	97. D	98. B	99. A	100.A					
	101.B	102.B	103.A	104.D					TM
	10 <mark>5</mark> C	106.C	107.B	108.D	D				
	109.D	110.D	111.B	112.B					
	113.C	114.B	115.C	116.B					
	117.C	118.B	119.B	120.C					
	Biology (1997)		SHAP	ING	YOUR	CAR	ER		
	81.B	82.A	83.D	84.B					
	85.D	86. A	87. B	88. C					TNA
	89. D	90. A	91.A	92. C					
	93. B	94. D	95. D	96. D					
	97. D	98. C	99. D	100.D					
	101.A	102.B	103.C	104.A					
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