## NATIONAL TALENT SEARCH EXAMINATION-2019-20, TAMILNADU MENTAL ABILITY TEST (MAT)\_ PAPER & HINTS & SOLUTION

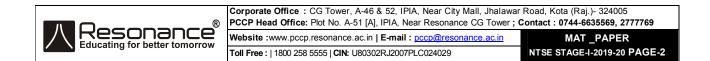
Directions : Questions (1 to 5)

In each question, the numbers are arranged in a sequence based on certain principle, Select the answer from the given four alternatives under each sequence.

1.	2,6,15,31,56,? (1) 87	(2) 67	(3) 93	(4) 92
Ans.	(4) 2, 6, 15, 31, 56, 9	22		
Sol.	$\begin{array}{c} \checkmark \lor \lor \lor \lor \lor \lor \lor \lor \\ +4 +9 +16 +25 +3 \end{array}$	6		
2.	5040,840,168,42,14? (1) 2	(2) 1	(3) 7	(4) 4
Ans.	(3) 5040, 840, 168, 42, 1	14, 7		
Sol.	$\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\div 6$ $\div 5$ $\div 4$ $\div 3$	V ÷2		
3.	14,24,41,65,96,? (1) 134	(2) 124	(3) 144	(4) 154
Ans.	(1) 14, 24, 41, 65, 96, 1	34		
Sol.	$ \begin{array}{c} 10 & 17 & 24 & 31 & 38 \\ 7 & 7 & 7 & 7 & 7 \end{array} $			
4.	2,3,4,4,6,12,16,12,36,3 (1) 64	2,24 (2) 256	(3) 48	(4) 28
Ans.	(2) 2, 3, 4, 4, 6, 12, 16, 12,			
Sol.	×2 ×4 ×	16		
5.	5,1,11,6,17,36,23,? (1) 216	(2) 108	(3) 54	(4) 59
Ans.	$\begin{array}{c} (1) \\ \times 6 \\$	(=)		( ) = =
Sol.	5, 1, 11, 6, 17, 36, 23, 2	216		
301.	+6 +6 +6			
	Directions : (Question Identify the wrong nu	ns number 6-10) mber/letters in the seri	es.	
6.	25,62,122,214,341 (1) 122	(2) 62	(3) 214	(4) 341
Ans.	(1)			. /

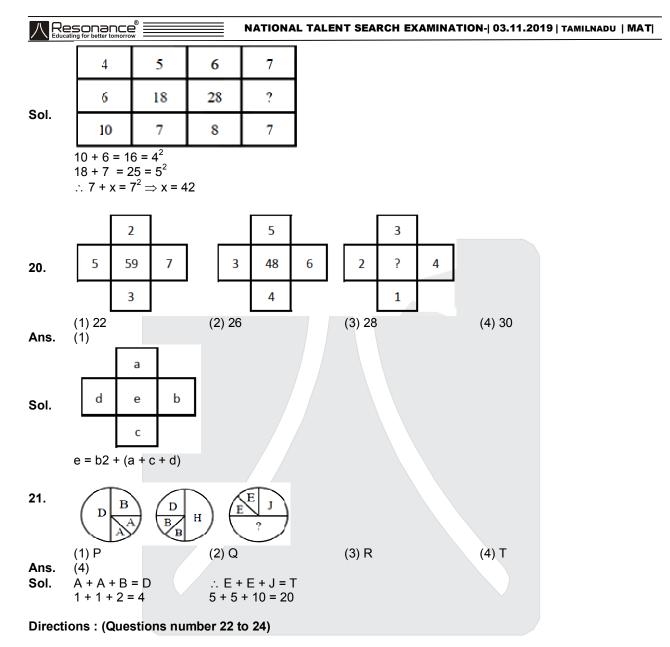


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Sol.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
7. Ans.	1,3,7,15,31,65,127 (1) 7 (2) 31 (4)	(3) 15	(4) 65
Sol.	1, 3, 7, 15, 31, 65, 127 +2 +4 +8 +16 +32 +64 $\therefore$ 65 is wrong answer.		
8. Ans. Sol.	-1,2,2,5,7,10,14,17,23,26 (1) 1 (2) 7 (NA)	(3) 23	(4) 10
9. Ans.	AD, EG, IJ, MM, QP, UP (1) EG (2) UP (2)	(3) QP	(4) MM
Sol.	4 7 10 13 16 19 AD, EG, IJ, MM, QP, UR ∴ UP is wrong answer.		
10. Ans. Sol.	Z8,W5,T2,Q8,N5,K3 (1) K3 (2) T2 (1) 26 23 20 17 14 11 Z8, W5, T2, Q8, N5, K3	(3) Q8	(4) Z8
	(2+6) (2+3) (2+0) (1+7) (1+4) (1+1) $\therefore$ K3 is wrong answer		
11. Ans. Sol.	'Sea' is related with 'Waves' Then 'Candle' is rel (1) rays (2) wax (2) 'Sea' is related with 'waves'. In the same way ca	(3) stand	(4) melt
12. Ans. Sol.	Which set of number is like the given set? (80,6 (1) (16,12,9) (2) (16,12,5) (1) (80,60,45) Similarly (16,12,9)	i0, 45) (3) (20,15,11)	(4) (160,120,80)
	Directions : Questions number 13 and 14) First two terms are connected by some relation terms. Identify the suitable pair.	onship. The same relation	onship is applicable for the next
13. Ans. Sol.	Square : cube : : (1) rectangle : Cuboid (3) Quadrilateral : Cuboid (1) Rectangle : Cuboid	(2) Triangle : Square (4) Cuboid : Rectangle	



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14.	82:9:: (1) 5:26	(2) 6 : 37	(3) 35: 6	(4) 26 : 5	
Ans.	(4) 82:9::26:	5			
Sol.	$9^2 + 1$ $5^2 + 1$	·			
	л	1			
15.	If 'tee see pee' m is tall' which wor	neans 'prepare fruit juice', d means 'nice'?	, 'see kee tee' means 'ju	uice is nice' and 'lee ree mee' me	ans 'it
Ans.	(1) ree (NA)	(2) mee	(3) kee	(4) pee	
Sol.					
16.		HONEY is written as HP			
Ans.	(1) FPTJJ (2)	(2) FPTJI	(3) FQTJI	(4) FPSJI	
	HONEY	FORGE			
Sol.	+0+1+2+3+	+4 +0 +1 +2 +3 +4			
301.	HPPHC	FPTJI			
17.		and ACT = 48 then TAKE			
Ans.	(1) 68 (3)	(2) 58	(3) 74	(4) 76	
Sol.	A = 1 × 2 = 2 T = 20 ×2 = 40				
		= (20 + 1 + 11 + 5) × 2 =	74		
		estions number 18 to 2 d numbers/letters follow c		he missing number/letter indicate	ed.
	$\wedge$	A			
	2/3	6 / 9	6 ?		
18.	5		22		
	4	4 (2) 12	5 (3) 11	(4) 00	
Ans.	(1) 8 (N A)	(2) 12	(3) 11	(4) 33	
Sol.					
	4 5	6 7			
19.	6 18	28 ?			
	10 7	8 7			
A	(1) 38	(2) 40	(3) 41	(4) 42	
Ans.	(4)				

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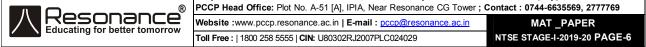
First two terms are connected by some relationship. The same relationship is applicable for the next terms in which one is blank space. Identify the blank space.

22. Ans. Sol.	Tree : Plant : : Woman (1) boy (3) girl	: ? (2) child	(3) girl	(4) mother
23. Ans. Sol.	Roof : floor :: ? : Dark (1) Tube light (3) Bright	(2) Bulb	(3) Bright	(4) Black
24. Ans. Sol.	7 : 50 : : ? : 65 (1) 9 (3) 72 + 1 = 50	(2) 64 ∴ $8^2 + 1 = 65$	(3) 8	(4) 1 1
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25. Ans. Sol.	Drama is related to Director in the (1) Story (2) Edito (2) Editor	e same way as `Magazine' is related to r (3) Reader	: (4) Printer
26.	thrice that of the younger son. If the father is:	age of the elder son. Twelve years he the difference between the elder and y	ounger son is 15, the age of the
Ans. Sol.	(1) 21 (2) 42 (2) Let the age of father, elderson an Given F = 2E (F + 12) = 3(Y + 12) E - Y = 15 from (1), (2) & (3) 2E + 12 = 3(E - 15 + 12) $\therefore E = 21$ $\therefore F = 2E = 42$	(3) 63 Ind youngerson be F, E and Y respective (1) (2) (3)	(4) 84 ely,
27. Ans. Sol.	In an examination, a student geproblems in all, the number of pro (1) 90 (2) 30 (1) Let the number of problems incor $\Rightarrow x = 3(120 - x)$ $\therefore x = 90$	(3) 40	e got right. If he attended 120 (4) 60
28. Ans. Sol.	The number of neither composite (1) 2 (2) 3 (3) Option (3)	nor prime number in the set of Natura (3) 1	l numbers is: (4) 0
29. Ans. Sol.	In a group of cows and hens, th possible number of cows and her (1) 20, 4 (2) 4, 20 (1) Let the number of cows, and hene 4c + 2h = 16 + 3(c + h) $\therefore c - h = 16$	(3) 18, 6	nrice the number of heads. The (4) 6, 18
30. Ans. Sol.	<ul> <li>(2) The first positive real number</li> <li>(3) The non-negative integer start</li> <li>(4) The number of natural number</li> <li>(1)</li> </ul>	etween 1 and 2 is same as 1 and 3 is 0 ts with 1	
31. Ans. Sol.	If South becomes north-east and (1) East (2) West (4) Hint: 135° anti clock wise rotation		-west becomes. (4) South

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	esonance		NT SEARCH EXAMINATIO	ON-  03.11.2019   TAMILNADU   MAT
32. Ans.	One evening during su his left. The person fac (1) South (1)		ng facing a pole. The sh (3) West	nadow of the pole fell exactly to (4) North
Sol.	South			
33. Ans. Sol.	The number of two digi (1) 9 (4) 90, 96, 95, 94, 99, 59, 4	(2) 12	as at least one of the dig (3) 6	its from the digit 0, 6, 9, 5, 4 is: (4) 8
34.	In a row of students	a boy is 12th from the le	ft end and 18th from the	e right end. The total number of
•	students is a/an : (1) prime number (3) even number		<ul><li>(2) composite number</li><li>(4) can't be predicted</li></ul>	
Ans. Sol.	(1) Hint : Total = Left + Rig Total =12 + 18 –1 = 29			
35.		tower toll at the interval	s of 9 sec, 12 sec, 15 s	sec, 18 sec, 21 sec and 24 sec
		m, the next time they toll		
Ans.	(1) 7.42 am (2)	(2) 6.42 am	(3) 8.00 am	(4) 9.00 am
Sol.	Hint : LCM (9,12,15.18	,21 and 24)		
36.		98542679813	5 4 2, the number of p	airs of alternate numbers have
•	difference 3,is (1) 4	(2) 2	(3) 3	(4) 1
Ans. Sol.	(1) By observation			
37.	The arrangement of all (a) music	ohabetical order of the wo (b) monk	ords: (c) minimum	(d) maximum
	(1) (d), (c), (b), (a)	(2) (a), (c), (d), (b)	(3) (d), (c), (a), (b)	(4) (d), (a), (c), (b)
Ans. Sol.	(1) By observation			
38.	Select the combination R T F I U 1 2 3 4 5	of number so that the le	tters arranged according	ly will form a meaningful words:
	(1) 3,1,5,4,2	(2)1,3,5,4,2	(3) 3, 5, 1, 4, 2	(4) 3, 2, 5, 4, 1
Ans. Sol.	(1) By observation [F R U		(0) 0, 0, 1, 1, 2	(1) 0, 2, 0, 1, 1
39.		eft of seventeenth letter f	rom the right end of the I (3) Y	
Ans. Sol.	<ul> <li>(1) B</li> <li>(4)</li> <li>Hint: 9<sup>th</sup> Left + 17<sup>th</sup> righ</li> <li>∴ 26<sup>th</sup> from right is A.</li> </ul>	(2) Z t = 26 <sup>th</sup> from right	(3) 1	(4) A
40.	A group of letters is giv that letters arranged fo R O P N E S 1 2 3 4 5 6		1, 2, 3, 4, 5, 6. Choose	the combination of numbers, so
		(2) 1, 3, 5, 6, 2, 4	(3) 3, 5, 6, 1, 2, 4	(4) 3, 5, 2, 1, 6, 4
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**Ans.** (1)

**Sol.** By observation [PERSON]

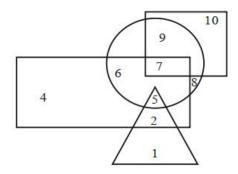
## Directions: (Questions number 41 to 45)

Select from the given diagrams (a), (b), (c) or (d) the one that illustrates the relationship among given classes.

		$\bigcirc$	$\bigcirc$
	(a) (b)	(c)	(d)
41.	Birds, Tigers, Peacocks: (1) (b) (2) (c)	(3) (a)	(4) (d)
Ans.	(1)	(0) (0)	(+) (0)
Sol.	By observation		
42.	Languages, Tamil, Telugu:	(2) (d)	(4) none of these
Ans.	(1) (a) (2) (b) (4)	(3) (d)	(4) Home of these
Sol.	By observation		
43.	Football fans, Cricket fans, Kabaddi fans	(3) (2)	(4) (d)
Ans.	(1) (b) (2) (c) (3)	(3) (a)	(4) (d)
Sol.	By observation		
44.	Human beings, Indians, Tamilians:		
Ans.	(1) (a) (2) (d) (2)	(3) (c)	(4) (b)
Sol.	By observation		
45.	Tamil Nadu, Punjab, Haryana:		
Ans.	(1) (c) (2) (a) (1)	(3) (d)	(4) (b)
Sol.	By observation		

## Directions : (Questions number 46 to 50)

In the following figure, Rectangle, Square, Circle and Triangle represent the regions of rice, gram maize and wheat cultivation respectively. On the basis of the given figure answer the questions.



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46. Ans. Sol.	Which region cultivates all (1) 7 (2 (4) By observation	l the four? 2) 5	(3) 6	(4) None	
47. Ans. Sol.	Which region cultivates on (1) 6 (2 (2) By observation	nly rice? 2) 4	(3) 5	(4) 3	
48. Ans. Sol.	Which region cultivates wh (1) 5 (2) (1) By observation	heat and maize? 2) 2	(3) 6	(4) 7	
49. Ans. Sol.	Which region cultivates all (1) 1, 8, 9, 10 (2 (1) By observation	l except rice? 2) 2, 8, 9, 10	(3) 1, 7, 8, 9	(4) 1, 4, 7, 9	
50. Ans. Sol.	Which region cultivates gr (1) 9 (2 (4) By observation	ram only? 2) 7	(3) 8	(4) 10	
Directions : (Questions number 51 and 52)					
51.	Read the given statements (i) $A + B$ means A is the fa (ii) $A - B$ means A is the w (iii) $A \times B$ means A is the b (iv) $A \div B$ means A is the c A - B + C means:	ather of B vife of B prother of B	stions 51 and 52		
Ans. Sol.	(1) A is the mother of C (3) B is the mother of C (1) A = B I C So A is mother of C		<ul><li>(2) C is the mother of A</li><li>(4) C is the mother of E</li></ul>		
52. Ans. Sol.	A x B ÷ C (1) C is mother of B (3) A is mother of C (1) A x B ÷ C A × B → A is brother of B B ÷ C → B is daughter of B According to options. C is		(2) B is mother of C (4) A is mother of B		
	Direction : ( Question number 53 to 55)Study the following information and answer the questions (53 to 55) given below, These is a group of five persons A, B, C, D and E.(i) A, B and C are Tall(ii) A, D and E are Educated (iv) A, B and E are Urban(ii) D, C and E are Urban(iv) A, B and E are Hardworking				
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( Ans. (	(1) A (2)		ons is neither educa		
E C E N	B → Tall, Ha C → Tall, Ur D → Educate E → Educate	lucated, Hardw Irdworking ban ed, Urban ed, Urban, Har ated nor hardw	) C /orking dworking	ted nor hardworking? (3) D	(4) E
( Ans. ( Sol. N	(1) A (3)	(2) n nor educated	ons is neither urban ) C d but is hardworking.	nor educated but is hard (3) B 'B'	lworking? (4) D
( Ans. ( Sol. E	(1) A,B.C,E (1)		ons is either tall or h ) all	ardworking? (3)A,B,D,E	(4)A.B,C,D
a ( Ans. ( Sol. E 6 7 1 7	a digit in iṫ? (1) 6 (3) Between 1 a 6, 36, 60, 66 Total numbe <b>Direction : (</b>	(2) nd 100 (numb , 96. rs are '5' <b>Read the pas</b> , Q, R, S and	) 4 ers) divisible by '6' ar sage and answer th	(3) 5 nd having 6 as a digit. ne questions 57 and 58)	(4) 7 t behind S. P finished before Q
57. V	Who won the (1) Q In a race	e race?	P	(3) R	(4) S Ans. (4)
F	P — Q — Race won by	S – R – T – – – – – – – – – – – – – – – – – –	$\rightarrow$ $\rightarrow$ $\rightarrow$ $\rightarrow$		
(	Who got the (1) Q (1)		S	(3) P	(4) T
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Sol.	Lesonance <sup>®</sup>	NATIONAL TALE	INT SEARCH EXAMINATI	ON-  03.11.2019   TAMILNADU   MAT
•••	Direction : (Question	number 59 and 60)		
		rds in a meaningful seq	uence and choose the	most appropriate sequence from
59.	(a) appendix (1) (a), (c), (b), (d)	(b) contents (2) (a), (b), (c), (d)	(c) chapters (3) (d), (c), (b), (a)	(d) introduction (4) (c). (d), (a), (b)
Ans. Sol.	(2) Order is appendix, cor a	ntents, Chapters, Introduc b c d	ctions	
60. Ans.	(a) protect (1) (c), (d), (a), (b) (4)	(b) relief (2) (c), (a), (d), (b)	(c) flood (3) (a). (b), (c), (d)	(d) rain (4) (d), (c), (a), (b)
Sol.	Order is rain, flood, production d	otect, relief a b		
	lf '–' means '×', 'x' mea	ans '+ '+' means '÷' '÷'me	ans '' then answer the	question 61 and 62.
61. Ans. Sol.	$8 + 4 - 3 \times 2 \div 1 =$ (1) 8 (2) '-' means 'x' 'x' means '+' '+' means '+' ' $\div$ ' means '-' $8 + 4 - 3 \times 2 \div 1 \Longrightarrow$ $8 + 4 \times 3 \times 2 - 1 \Longrightarrow 2 \times 2$	(2) 7 < 3 + 2 - 1 = 8 - 1 = 7	(3) 22	(4) 21
62. Ans. Sol.	$12 \times 8 + 2 - 4 \div 6 =$ (1) 7 (NA) $12 \times 8 + 2 - 4 \div 6$	(2) 16	(3) 18	(4) 8

- Sol.  $12 \times 8 + 2 4 \div 6$   $\Rightarrow 12 + 8 \div 2 \times 4 - 6$   $\Rightarrow 12 + 16 - 6$  $\Rightarrow 22$
- 63. If '- ' means '+','+' means '× '+' means '-' '×' means '+' then which of the following is correct? (1)  $36 - 12 \times 6 \div 3 + 3 = 60$ (2)  $52 \div 4 + 5 \times 8 - 2 = 36$ (3)  $42 - 8 \times 3 \div 4 + 3 = 38$  $(4) 49 - 10 + 8 \div 4 + 4 = 40$ Ans. (2) '–' means '÷' Sol. '+' means '×' '+' means '--' 'x' means '+' option (2)"52  $\div$  4 + 5 × 8 - 2 = 36"  $52 - 4 \times 5 + 8 \div 2 = 36$ 52 - 20 + 4 = 36
- 36 = 36 64. If  $8^{*1} = 81,9^{*1} = 100$  then 7 \* 1 = is: (1) 50 (2) 64 (3) 51 (4) 48 Ans. (2) Sol.  $8 \times 1 = 81, 9 \times 1 = 100, 7 \times 1 =$  $(8 + 1)^2 = 81, (9 + 1)^2 = 100, (7 + 1)^2 = 64$

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65. Ans. Sol.	If $37 + 42 = 16,43 + 54$ (1) 100 (4) $\rightarrow 37 + 42 = 16$ sum of all the digits $3 + 43 + 54 = 16$ 4 + 3 + 5 + 4 = 16 $\rightarrow 25 + 34 = 14$ 2 + 5 + 3 + 4 = 14 $\rightarrow 65 + 35 \Rightarrow 6 + 5 + 3$		65 + 35 = (3) 1 8	(4) 1 9
	Direction : (Question n Choose the best altern			
66. Ans.	If $A + B > A + C$ and $A$ (1) $B > 0$ (1)	A + B > A – C then (2) A > 0	(3) C > 0	(4) None of these
Sol.	A+B > A-C $(+) A+B > A-C$ $2A+2B > 2A$ $2(A+B) > 2A$ $A+B > A$ $B > 0$			
67. Ans. Sol.	Danger always involve (1) fear (1) Danger always involve	(2) help	(3) attack	(4) enemy
68. Ans. Sol.	When the time is 4.20 (1) 0° (4) 4 :20 H M	the angle between the h (2) 15°	ands of the clock is: (3) 20°	(4) 10°
	Direction : (Question	$\left  -\frac{11}{2} \times 20 \right  =  120 - 110  =$ number 69 to 73)	: 10°	

Read the following information carefully and answer the questions given below:

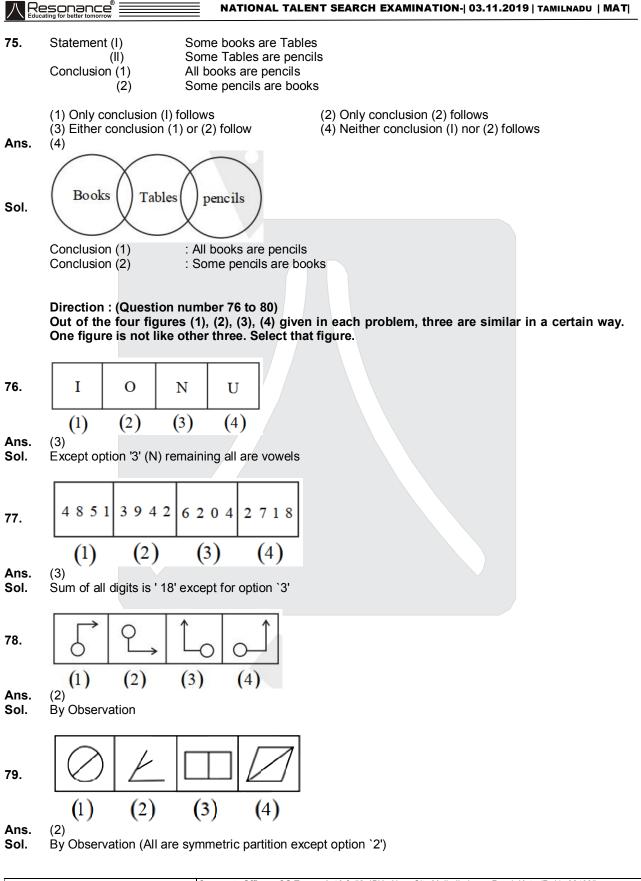
(i) There is a group of 5 persons P, Q, R, S and T.

(ii) Among them there is an Agriculturist, a Teacher, a Lawyer, a Doctor and an Editor by profession.(iii) Three of them P, R and the Editor prefer meals to tiffin and two of them Q and the Lawyer prefer tiffin to meals:

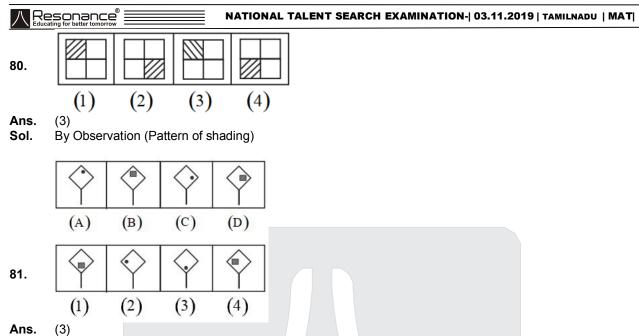
(iv) The doctor, S and P are friends to one another but two of these prefer tiffin to meals.(v) Agriculturist is R's Brother.

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	Agriculturist	Teacher	Editor	Doctor	Lawyer	
	Р	Q	R	S	Т	
	Prefer	Prefer	Prefer	Prefer	Prefer	
	Meals	Meals	Meals	Tiffin	Tiffin	
	to tiffin	to tiffin	to tiffin	to meals	to meals	
69.	Who is Doctor ? (1) Q	(2) R	(3) S		(4) T	
Ans. Sol.	(1) 5 persons P, Q, R, 3				. /	
70.	Who is Agriculturist (1) T	? (2) S	(3) R		(4) P	
Ans. Sol.	(4) Agriculturist - P	(2) 0			(')'	
71.	Which of the followi (1) P, R, T	ng groups prefer tiff (2) P,R	in? (3) Q,S		(4) P,S	
Ans. Sol.	(3) Prefer Tiffin - Q and		(0) 0,0		(1)1,0	
72.	Who is Teacher? (1) Q	(2) R	(3) P		(4) T	
Ans. Sol.	(2) Teacher - R	(2) 13				
73.	Who is the Editor? (1) T	(2) P	(3) Q		(4) S	
Ans. Sol.	(1) Editor - T		(1) -			
	<b>Direction : [Question number 74 and 75]</b> In each of the questions given below, two statements I and II are followed by the conclusions numbered 1 and 2 . Read the conclusion and give the answer.					
74.	Statement (I) (II)	: All women ar : All mothers a				
	Conclusion (1) (2)	: All women ar				
Ans.	<ul><li>(1) Only conclusion</li><li>(3) Either conclusio</li><li>(1)</li></ul>	(I) follows n (I) or (2) follow		/ conclusion (2) fo her conclusion (1		
Sol.	W S					
	Conclusions (I)	: All women ar				
	Conclusion (2)	Corporate Office	n are not sisters : CG Tower, A-46 & 52 ce: Plot No. A-51 [A], IPL			• ·
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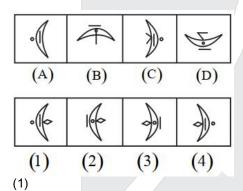
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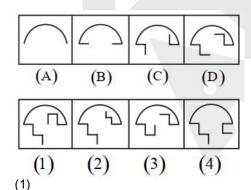
Ans.

82.

Alternatively ' •' and ' I' changing and shifting one more clockwise so answer is option (3) Sol.



Ans. By observation (Rotating 90° clockwise every time) Sol.

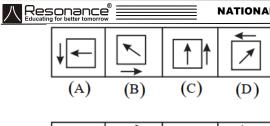


Ans. Sol.

By observation

83.

<b>R</b>	Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005 PCCP Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower ; Contact : 0744-6635569, 2777769				
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-

(2)

(2) Ans. Sol. By observation

> $(\parallel)$ |||)(|()(A) (B) (C) (D) (( )) ()())( )) )( ) (3) (1) (2)(4)

(3)

(4)

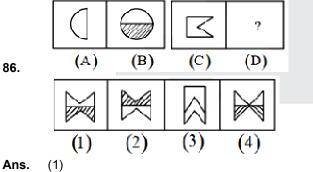
Ans. (2)

85.

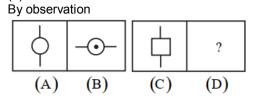
Sol. By observation

## **Direction : (Question number 86 to 88)**

Figures A and B are related in some manner. Find the same relationship between figures C and D by choosing the alternatives (1), (2), (3) or (4) to replace the figure in D.



Ans. Sol.



(3)

٠

(4)

(2)

•

(1)

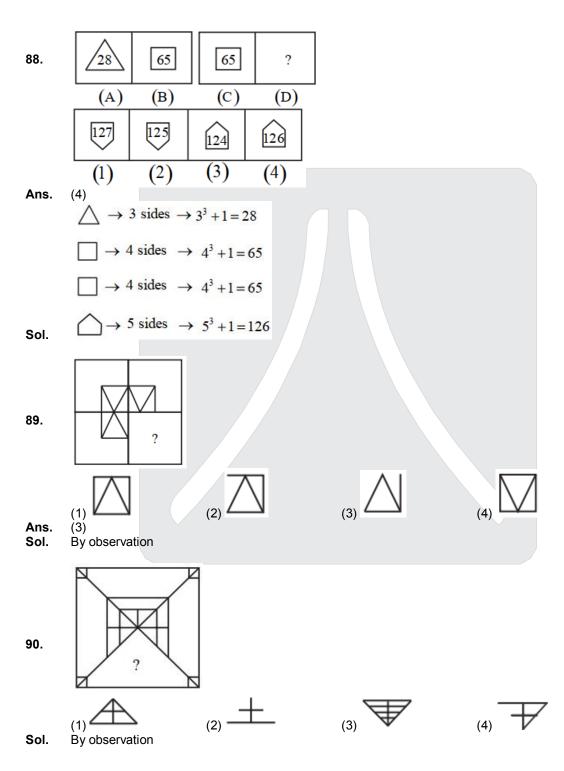
87.

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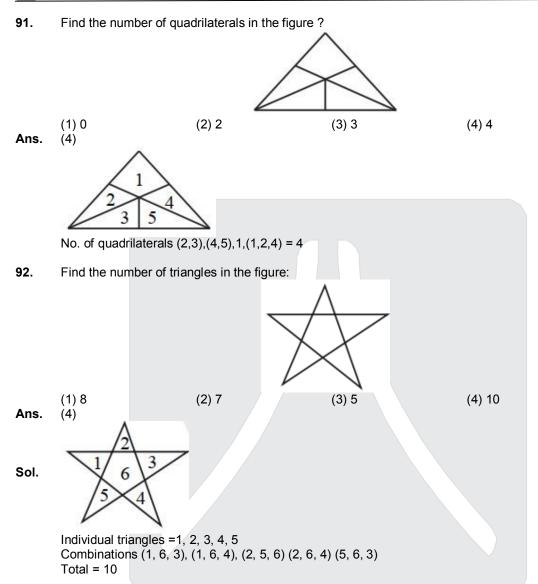
**Ans**. (3)

**Sol.** By observation (same shape shaded small figure is placed inside)



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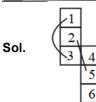


**93.** When a box is unfolded, the figure looked like the given one. What are the faces opposite to 4 and 5 respectively?

			1	
			2	
			3 4	
			5	
			6	
Ans.	(1) 2,6 (2)	(2) 6, 2	(3) 1, 3	(4) 2, 4

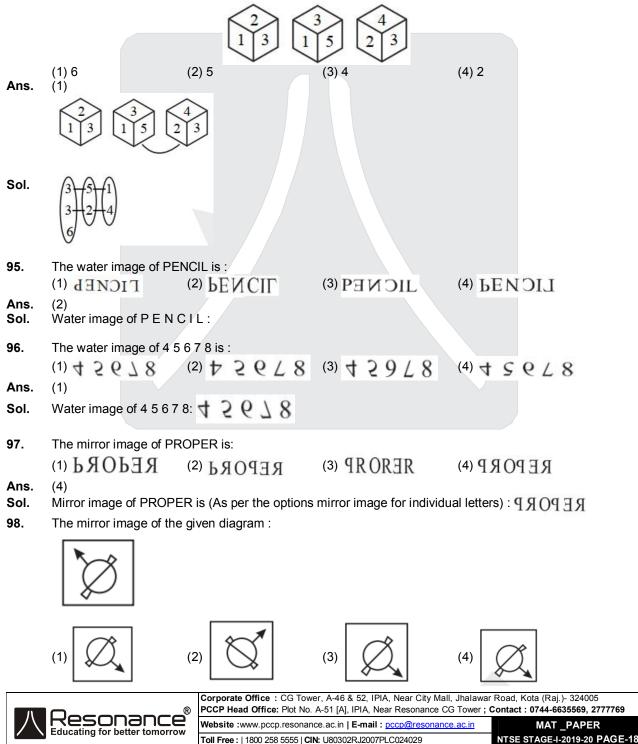
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Numbers opposite to 4 and 5 are 6 and 2

**94.** A die is thrown three times and its three different positions are given below. Find the number on the face opposite to 3.



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Ans. Sol.	(2) By observation				
99.	be played is :			actly once. The number of matches will	
Ans. Sol.	(1) 5 (4) 5 teams let A, B, A play with other ${}^{5}C_{2} = \frac{5 \times 4}{2 \times 1} = 10$	(2) 4 C, D, E four teams, B with 3 te	(3) 20 eams, C with 2 teams	(4) 10	
100.	alphabets?	•		d 21st letter from the right in English	
Ans. Sol.	(1) N (1) 22 <sup>nd</sup> letter from the 21 <sup>st</sup> letter from the ketter, midway be	(2) M e left end is 'V' e right end is 'F' etween V and F <sub>6</sub> $\left(\frac{22}{2}\right)$	(3) L $\frac{-6}{10} = \frac{14}{10^{10}}$ is 'N'	(4) O	

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