			NT SEARCH EXAMINA	TION-2016 27-11-2016		
MAT(PAPER WITH SOLUTION)						
1.	As 'Clock' is related	d to 'Second' in the same	way ' Calendar' is related	to		
	(1) Time	(2) Date	(3) Month	(4) Year		
Ans.	2					
Sol.	As in clock hour calendar	\rightarrow Minute \rightarrow Second s	shows the decreasing or	der so in the same way in		
	Year \rightarrow Month \rightarrow	Date will represent the s	ame.			
Direct	ion: In Question No	s. 2 and 3, there is certa	in relation between terms	in the left side of the sign : :		
	Similar type of rela	ation is there between the	e two terms in the right si	de of the Sign : : . Write the		
	correct option from	the given alternatives:				
2.	Moon : Satellite : :	Earth : ?				
	(1) Sun	(2) Solar system	(3) Planet	(4) Star		
Ans.	3					
Sol.	Moon is a satellite	and earth is planet.				
3.	7:56::9:?					
	(1) 81	(2) 90	(3) 99	(4) 108		
Ans.	2					
Sol.	7 : 56 :: 9 : ?					
	7 : 7 (7 + 1) :: 9 : 9	(9 + 1)				
	1.1 (1.1)					
Direct	ion: In Question No	s 4 and 5 excent one a	Iternative other alternative	es are alike in a certain way.		
Direct		rnative which is different		o are ante in a certain way.		
4.	(1) Teacher	(2) Lecturer	(3) Student	(4) Professor		
Ans.	3					
Sol.	Option (1) (2) (4) re	epresent tutors. So odd o	ne will be (3)			
5.	(1) Square meter	(2) Cube root	(3) Hectare	(4) Acre.		

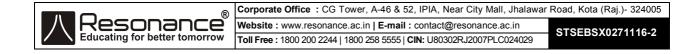
Sol. Option (1) (3) (4) are units of Area . So odd one will be (2)

5. Ans.

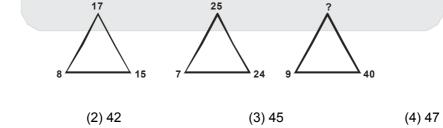
2

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		SEARCH EXAMINATIO	DN-2016 27-11-2016			
6.	Find the missing group of number letter in the f		·			
	3F, 6G, 11I, 18L, <u>?</u>					
	(1) 21 <i>N</i> (2) 25 <i>P</i>	(3) 27 <i>P</i>	(4) 27 <i>N</i>			
Ans.	3					
	1 2 3 4					
Sol.	\frown					
501.	3F 6G 11I 18L 27P					
	+3 +5 +7 +9					
7.	In the partice 6.4.1.2.2.9.7.4.2.1.5.2.9.6.2.1.2.2	9.6 how many pairs of suc	acceive numbers have a			
7.	In the series 6,4,1,2,2,8,7,4,2,1,5,3,8,6,2,1,3,2, difference of 2 ?	o,o now many pairs or such				
	(1) 4 (2) 5	(3) 6	(4) 7			
Ans.	3	(3) 0				
Sol.	6, 4, 1, 2, 2, 8, 7, 4, 2, 1, 5, 3, 8, 6, 2, 1,	3 , 2, 8, 6				
8.	The missing number in the series $\frac{3}{8}, \frac{8}{26}, \frac{2}{242}$	$\frac{23}{100}$ is.				
	(1) $\frac{11}{80}$ (2) $\frac{13}{80}$	(3) $\frac{11}{81}$	(4) $\frac{15}{81}$			
Ans.	2	01	01			
Alis.	2					
Sol.	$\frac{3}{8}$, $\frac{8}{26}$, $\frac{13}{80}$, $\frac{18}{242}$, $\frac{23}{728}$					
001.	$\overline{8}$, $\overline{26}$, $\overline{80}$, $\overline{242}$, $\overline{728}$					
	Numerator = 3, 8, 13, 18, 23 (gap of +5)					
	Denominator = 8, 26, 80, 242, 728	(3 ⁿ -1)				
9.	How many whole numbers are there from 1	to 100 which have at leas	t one digit as 4 and are			
	divisible by 4 ?					
	(1) 6 (2) 7	(3) 10	(4) More than 10			
Ans.	2					
Sol.	Numbers 4, 24, 40, 44, 48, 64, 84 follow the co	ndition which is asked in qu	lestion.			



	esonance		ENT SEARCH EXAN	/INATION-2016 27-11-2016
10.	Rajesh poin	ting to his son's photo said to	o Shakuntala, " his mo	other is daughter of your mother".
	How is Shak	untala related to Rajesh?		
	(1) Sister	(2) Daughter	(3) Sister – in	– law (4) Aunt.
Ans.	3			
Sol.	mother of R	ajesh's son is the daughter c	of Shakutala's mother	so by this statements be can say
	shakuntala a	and Rajesh's wife are sister so	Shakuntala will be "sis	ster in law" of Rajesh.
11.	Suresh, Raje	esh, Ashok, Ajay and Lalit are	e five friends. Lalit is o	lder than only three of his friends.
	Ajay is youn	iger to Ashok and Lalit. Rajes	sh is older than Sures	h only. Who amongst them is the
	eldest?			
	(1) Suresh	(2) Ajay	(3) Lalit	(4) Ashok
Ans.	4			
Sol.	Ashok			
	Lalit			
		Ajay		
		Rajesh		
		Suresh		
		Ourean		
	Given seque	ence represents order of all fiv	e in age with decreasir	g order so Ashok will be eldest.
12.	In the follow	ing, which number will come in	n place of question mai	κ sign?
		17 人	25	



Ans. 1

(1) 41

Sol. The no's on vertex of triangle represents "Pythagorean Triplet" so 9, 40 & 41 will be the triplets

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八星			IT SEARCH EXAMINA	TION-2016 27-11-2016		
13.	In a certain code 'SEDATE' is written as '957315' and 'DEPOSITE' is written as '75289415', then					
	how will TEAD be written in that code?					
	(1) 1573	(2) 1537	(3)7395	(4) 4359		
Ans.	2					
Sol.	SEDATE	> 957315				
	DEPOSITE —	→ 75289415				
	The given codes show direct coding in which code of $S = 9$, $E = 5$ & so on.					
	So TEAD = 153	37				
14.	In a certain coo code?	de 'STUDENT' is written as 'F	RSTEDMS', then how will T	FEACHER' be written in that		
	(1) SZBDGDQ	(2) SZDDGEQ	(3) SDZDGDQ	(4) SDBDGDS		
Ans.	3					
Sol.	19 20 21 4 5 14 20 STUDENT	18 19 20 5 4 13 19 → RSTEDMS				
	By the codes w	e can say that first three & la	ast 3 alphabets are decrea	sing by 1 & middle alphabet		
	is increasing by	(1) so by this rule code of te	acher will be.			
	20 5 1 3 8 5 18 TEACHER—	19 4 26 4 7 4 17 → SDZDGDQ				

15. A is son of C, C and Q are sisters. Z is mother of Q, If P is son of Z then

15. A is son of C, C and Q are sisters. Z is mother of Q, If P is son of Z then how is P related to A? (1) Grandfather (2) Maternal Uncle (3) Brother (4) Sister
Ans. 2
Sol. Q P Represents female member
A Represents male member

The Diagram represents the arrangement of members in generation order by diagram be can easily conclude that P is maternal uncle of A.

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八日		6		
16.	If '+' means '-' ; 'x' means '+' ; '+' means ' +' and '-' means 'x', then what is the value of the			
	expression 126 × 9 – 5 + 32 ÷ 16 ?			
	(1) 18 (2) 54 (3) 86 (4) None of these			
Ans.	2			
Sol.	As per the instruction given in question new expression will be			
	$126 \div 9 \times 5 - 32 + 16$			
	$\Rightarrow 14 \text{ x } 5 - 32 + 16 \qquad (by BODMAS rule)$			
	$\Rightarrow 70-32+16=54$			
17.	If '<' means '-' ; '>' means '+' ; ' =' means '×' and '@' means '+' , then what would be the value of	of		
	120 > 18 @ 9 < 3 ?			
	(1) 119 (2) 121 (3) 116 (4) None of these			
Ans.	1			
Sol.	As per the instructions given in question new expression will be			
	120 + 18 ÷ 9 – 3 (by BODMAS rule)			
	120 + 2 – 3 = 119			
18.	Water image of ACUITY is			
	(1) VCUILA (2) ADULLY (3) VDULLY (4) VCUILA			
Ans.	4			
Sol.	ACUITY VCNILX			
19.	Mirror image of WONDER is.			
	(1)ЯЭООИШ (2) REDNOW (3) ЯЕРИОМ (4) RЭОИОМ			
Ans.	1			
Sol.	WONDER SHOW			

Questions (20 - 23)

Following are the criteria for selection of candidates for Computer Operator in a company:

i) have passed Graduate with at least 60% marks.

ii) have passed PG Degree/ Diploma in Computer Application with at least 65% marks.

iii) have passed Computer skill test with at least 55% marks.

iv) age is between 24 years to 30 years as on date 01/09/2016.

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If the candidate satisfies all conditions but except

- a) Condition (ii), If at least 70%, marks in Computer skill test, then should be referred to G.M. Administration.
- b) Condition (iv), If at least two years, experience in IT, then should be referred to G.M., Personnel.
- **Direction :** Give answer to question Nos. **20** to **23** on the basis of the given criteria and select the option as follows:
 - (1) If candidate is selected
 - (2) If referred to G.M., Administration
 - (3) If referred to G.M., Personnel
 - (4) If candidate is not selected.
- **20.** Sushila passed B.A. with 68% and PG Diploma in Computer Application with 72%. She secured 70% marks in Computer skill test and her date of birth is 8 February, 1991.
- **21.** Mohit Secured 58% marks in B.Sc. and PG Diploma in Computer Application. His date of birth is 14 August, 1993. He secured 56% marks in Computer skill test.
- **22.** Prakash secured 66% marks in B.C.A. and 61% marks in M.C.A. He obtained 82% marks in Computer skill test. His age is 26 years on May 1, 2016.
- **23.** Ajay secured 61% marks in B.Sc. and 65% marks in M.C.A He has five year experience in I.T. and 60% marks in Computer skill test. His date of birth 1 January, 1986.

Sol. (20-23)

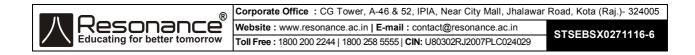
(I) BA
$$\rightarrow \ge 60\%$$
 (II) PGD $\ge 65\%$ (III) C.S.T $\ge 55\%$ (IV) 1/9/16 $\rightarrow \ge 24 \le 30$

If \neq (II) but \geq 70% in CST then GM (Admin)

If \neq (IV) but \geq 2yrs exp. In IT then GM (Personnel)

20.	I (√)	II (√)	III (√)	IV (√)	(1)
-----	-------	--------	---------	--------	-----

- **21.** I (×) II (×) III ($\sqrt{}$), IV ($\sqrt{}$) (4)
- **22.** $I(\sqrt{})$ II (×) III ($\sqrt{}$) IV ($\sqrt{}$) (2)
- **23.** $I(\sqrt{}) \quad II(\sqrt{}) \quad III(\sqrt{}) \quad IV(\times)$ (3)



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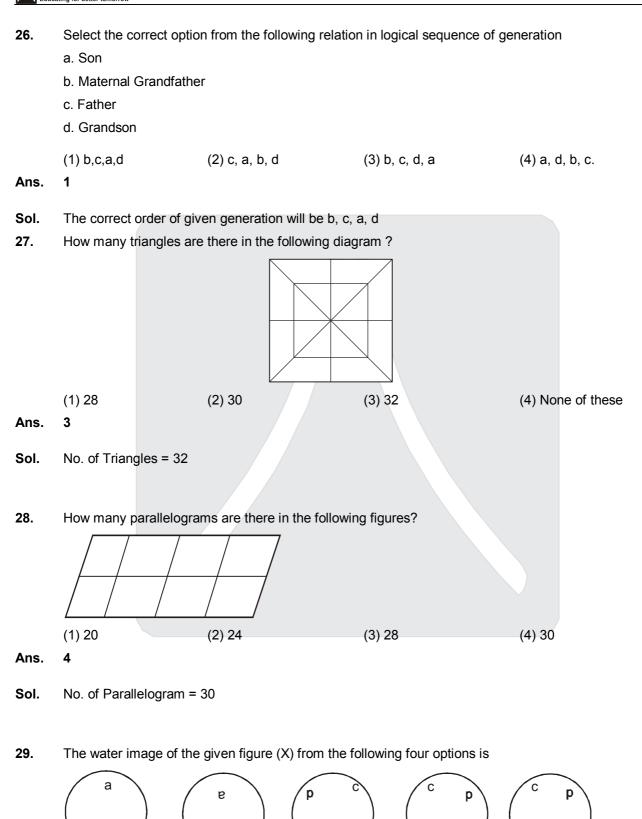
24. 500 students were examined in the subjects Science, Mathematics and English in the following Venn diagram, numbers represent the number of students failed in the subjects. The percentage of students who failed at least in two subjects is.

	13 50	J		
		English		
A ma	(1) 7%	(2) 8%	(3) 27%	(4) 35%
Ans.	Bonus			
Sol.	12 + 13 + 5 = 30	[Failed in at least 2-subje	ect]	
	Total = 500			
	$\frac{30}{500} \times 100 = 6\%$			
	% of failed student in a	at least 2 subjects = 6%		
	There is no option in th	ne answers		
	Hence (Bonus)			
25.	The present age of fat of his son, then the pre	her is seven times of his se esent age of father is.	on. After eight years, age	of father is three times
	(1) 4 years	(2) 21 years	(3) 28 years	(4) 35 years
Ans.	3			
Sol.	Let the present ages o	f father & son be y & x resp	pectively.	
	Now according to first	statement		
		y = 7x	(1)	
	Second statement	(y + 8) = 3 (x + 8)		
	\Rightarrow	y + 8 = 3x + 24		
		y – 3x = 16	(2)	
	From (1) & (2), be set			
	7x - 3x = 16	\Rightarrow x = 4 years		

So present age of father will be $7x = 7 \times 4 = 28$ years.

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(X)

(1)

Ans. 2

29.

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е

(2)

а

(4)

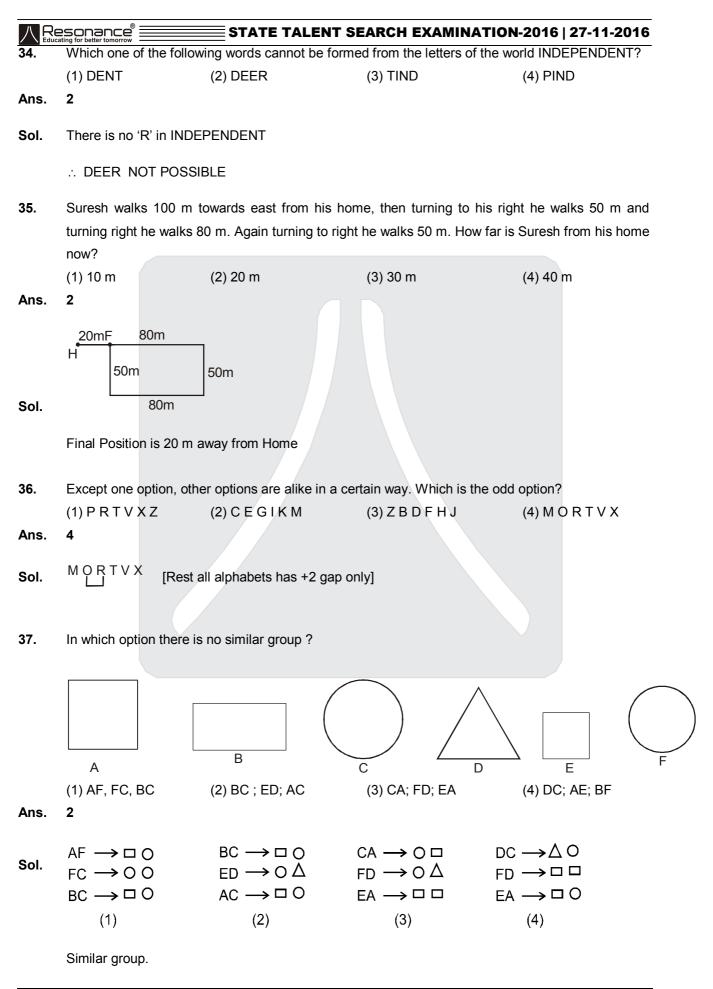
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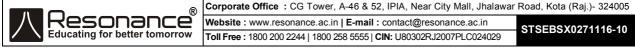
(3)

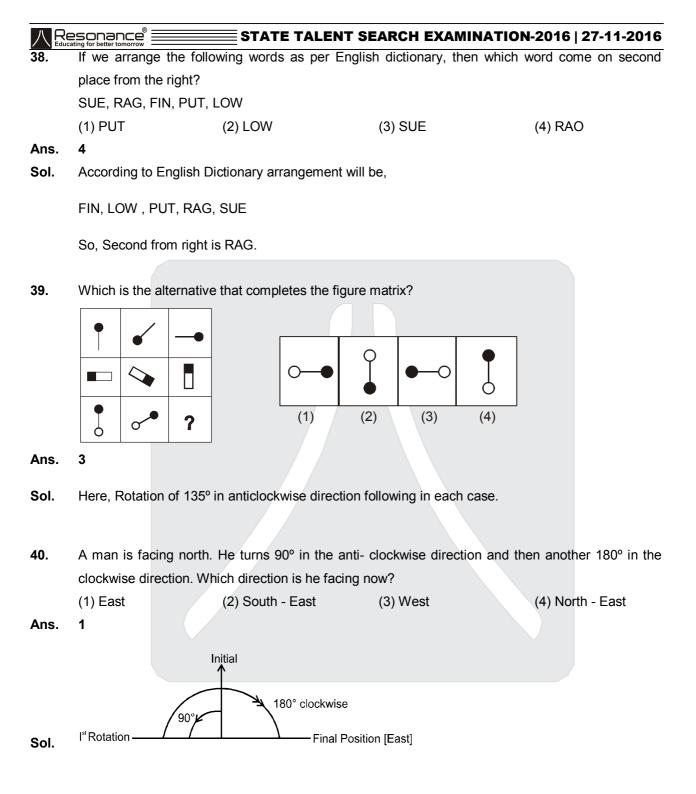
八民			NT SEARCH EXAMINA	TION-2016 27-11-2016	
30.	Arrange the following in a logical order:				
	a. Milk	b. Butter	C. Cow	D. Curd	
	(1) c, a, d, b	(2) a, b, d, c	(3) c, d, a, b	(4) b, c, a, d	
Ans.	1				
Sol.	$Cow \ \rightarrow Milk \rightarrow$	Curd \rightarrow Butter			
	c a	d b			
31.	If the first and third letters in the word 'NECESSARY' are interchanged, similarly the fourth and sixth letters and the seventh and ninth letters are exchanged, which of the following letters would be the seventh letter from the right in newly framed word?				
Ans.	(1) A 4	(2) Y	(3) C	(4) N	
Sol.	NECESSARY →	CENESSYRA			
32.	If 25 th date of any	month is Tuesday, then w	hich day will be on 2 nd date	of that month?	
	(1) Monday	(2) Sunday	(3) Wednesday	(4) Thursday	
Ans.	2				
Sol.	25 ightarrow Tuesday				
	\Rightarrow 4 th \rightarrow	Tuesday [∵ 4, 11, 18	3, 25]		
	$\Rightarrow 2^{nd} \rightarrow Sunday$				
33.	In the following qu	uestion, which number wil	I come at the question mark	k sign?	
	5 4 3 8 9 4				
	20 9	24 11	? 13		
	(1) 25	(2) 30	(3) 26	(4) 36	
Ans.	4				
	5 4				
Sol.	=	>			
	5	+ 4 = 9			
	5	× 4 = 20			
	Si	milarly \Rightarrow 9 + 4 = 13			
		-			

3	×	4	=	36
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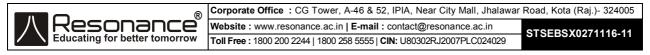


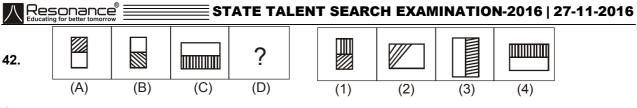


Direction : In question Nos. 41 and 42 there are two sets of figures. Figures A, B, C and C are problem – figure and figures 1,2,3 and 4 are answer – figures. There is definite relationship between figure A & B establish a similar relationship between C and D by choosing a figure D from the answer – figure.



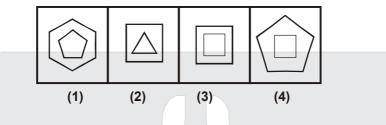
Ans. 3





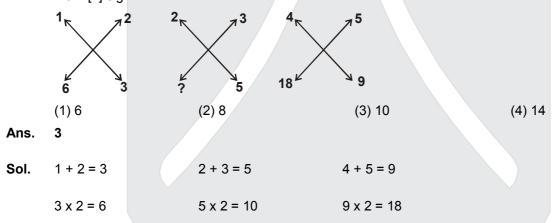
Ans. 4

43. In the question four figure are given. One of them does not correlate with the rest of the figures. Find out the odd figure.



Ans. 3

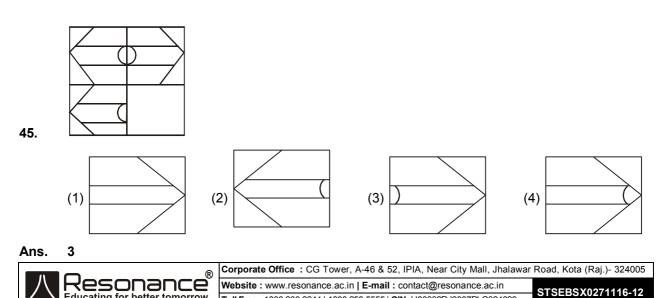
- Sol. Inner figure has one less side than the outer one.
- 44. In the following figure digits follow a certain pattern. Which number will come in place of question mark [?] sign?



Question (45 - 47)

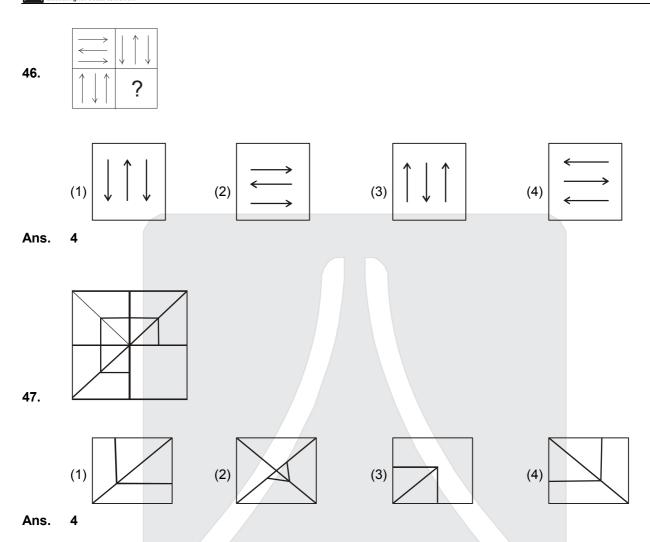
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Direction : Which is the alternatives that completes the figure matrix ?

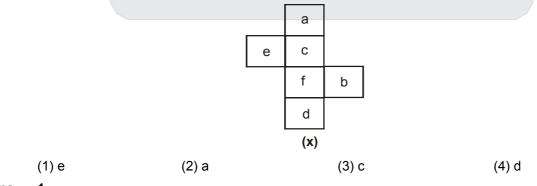


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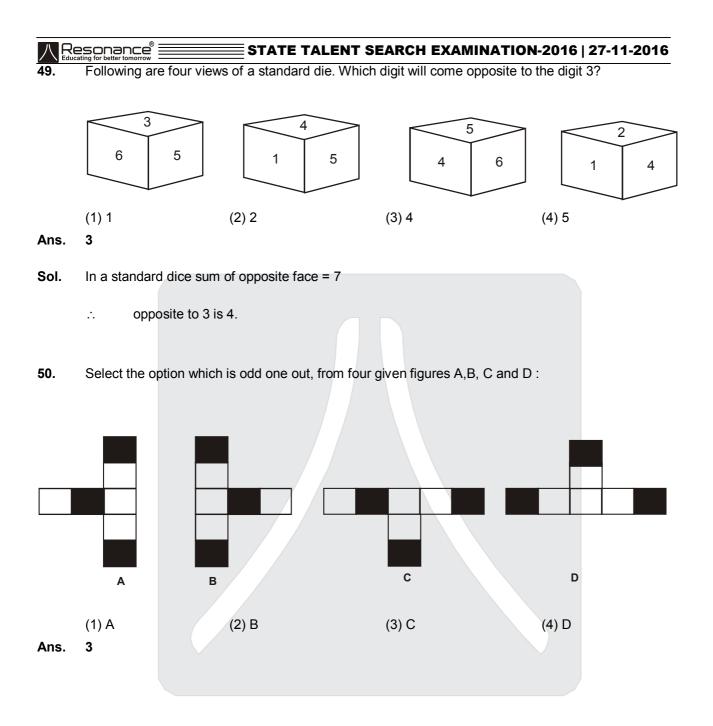
48. Choose the option, which is opposite to the letter b on the box, that will be formed when figure (X) is folded;



Ans. 1

Sol. According to the net pattern opposite to 'b' is 'e'.

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