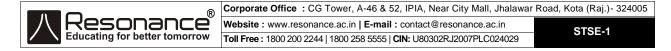
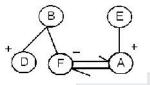
MAT-XII (PAPER WITH SOLUTION)							
1.	As Altimeter is (1) Intensity of (3) Growth in p	sound	o height in th	(2) Dep	/ Fathometer is related oth of ocean oospheric pressure	d to	
Ans. Sol.	[2] As altimeter is related to height in the same way fathometer in related to depth						
2.	As Mile is rela (1) Ocean	ited to Ea	rth in the sa (2) Mountai		t is related to (3) Planet	(4) String	
Ans. Sol.	[1]						
3.	Select the odd (1) Jaipur	one in th	e question g (2) Gandhir		(3) Shimla	(4) Ajmer	
Ans. Sol.	<b>[4]</b> All are capitals	of state	so (4) Ajmer				
4.	In the following (1) 8 : 512	g questior	n three pairs (2) 7 : 343	follow certa	in pattern. One pair is (3) 6 : 216	different. Select (4) 15 : 3125	
Ans. Sol.	<b>[4]</b> 15 : 3125	All are o	cubes				
5.	Find the missir 21, 63, 189, <u>?</u> (1) 567	ng term in , 1701	the followin (2) 721	g series :	(3) 954	(4) 1323	
Ans. Sol.	<b>[1]</b> 21,63,189,?,17 21×3=63, 63		189×3 = 56	7			
6.	Choose the mi			given alterna	atives:		
	MNBA, NOCB (1) PQDE	, OPDC_	<u>? .</u> (2) PQED		(3) DEPQ	(4) DEQP	
Ans. Sol.	[2] MNBA, NOCB	, OPDC					
7.		-	guage 'KANI	PUR' is code	ed as 'LBOQVS', then	in the same coo	ded language
	'NAGPUR' is c (1) BOHQVS	oded as	(2) OBHQV	'S	(3) OHBQVS	(4) DOHBQ\	/
Ans. Sol.	[ <b>2</b> ] KNAPUR +1		BOQVS				
	NAGPUR	> OBł	HQVS				
8.	+1 If in a certain code language 'nee time see' means 'How are you' and 'blee nee see' means 'Where are you', then which term is for 'Where' in that code language?					see' means	
Ans. Sol.	(1) blee <b>[1]</b>		(2) nee		(3) time	(4) see.	
nee blee	time see nee see		12	yøu ygud			



- 9. A is son of E, D is son of B, A is married with F, F is the daughter of B. What is the relation of D with A?
  (1) Brother
  (2) Brother-in-law
  (3) Father-in-law
  (4) Husband
- Ans. [2] Sol.



So D is Brother in law of A.

10. If F is brother of A, C is the daughter of A, D is the sister of F and J is the brother of C then who is the uncle of J?
(1) C
(2) A
(3) D
(4) F

Ans. [4] Sol. F D So is uncle Direction : Give the answer of questions with the help of the following information : A + B means A is father of B. A – B means A is wife of B.  $A \times B$  means A is brother of B. A ÷ means A is daughter of B. 11. S-T+Z means (1) S is mother of Z (2) Z is the daughter of S (4) S, is sister of Z (3) S is aunt of Z Ans. [1] Sol. S-T+Z

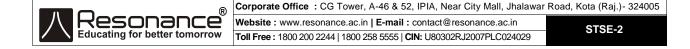
so is mother of Z.

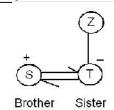
12. S × T ÷ Z means

(1) S is uncle of Z(3) S is brother of Z

(2) S is father of Z (4) S is son of Z

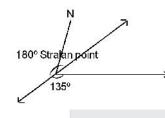
- Ans. [4]
- Sol. So S is son of Z.





- **13.** A man facing east. He turns 135° in clockwise direction and then turns 180° in the clockwise direction. Which direction is he facing now?
- (1) North-East (2) South-East (3) North-west (4) South -West Ans. [1]
- Sol. North-east

3 km



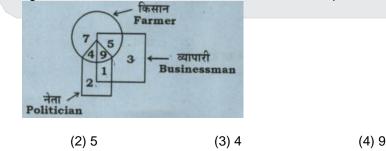
A man travels 5 km in the east from his house. Then he turned left and travelled 3 km, then again he turned left and travelled 5 km. Then how far is he from the initial point?
(1) 3 km
(2) 4 km
(3) 6 km
(4) 7 km



3 km



15. From the given figure, find the businessman who is farmer but not a politician :



# Ans. [2]

(1) 7

16. Choose the correct alternative of the given Venn diagram :



- (1) Employed, girls, married
- (3) Vegetable, lady's finger, tomato

(2) Hour, minute, second(4) She-student, girl, boy



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Ans. Sol.	[1] Employed, Girls, married.					
17.	Which word (1) INERTIA		om the letters of the wor NING (3) TER		EATING	
Ans. Sol.	<b>[3]</b> TERTIARY					
18.	Which letter (1) H	will be the sixth to lef (2) I	t of the twelfth letter from (3) J	m right end of the Engl (4) G	ish alphabet?	
Ans.	[2]					
19.	If a means ÷ (1) 17	, b means +, c means (2) 25	s -, and d means ×, ther (3) 8	n the value of 24a6d4b (4) 16		
Ans. Sol.	<b>[1]</b> 24÷ 6 × 4 +	9 – 8 = 17				
20.		ging which symbols r $35 + 7 \times 5 \div 5 - 6 = 34$	nakes the equation corr 4	rect?		
	(1) × and -	(2) + and		d - (4) - a	and +	
Ans. Sol.	<b>[4]</b> 35 – 7×5 ÷ 5	i + 6 = 34				
21.	The correct order of the following words in English dictionary will be a. slunk b. slung c. slump d. slum.					
	(1) d,c,b,a	(2) c, b, c	d, a (3) c, a,	d, b (4) a,	b, c, d	
Ans.	[1]					
22.	What will be	e the correct sequenc a. square b. line c. angle d. triangle e. point	3			
	(1) e,b,c,d,a	(2) a,c,d,	b,e (3) e,c,b	o,d,a (4) e,a	ı,d,c,b	
Ans. Sol.	<b>[1]</b> e,b,c,d,a					
23.	What will be the correct sequence of the following? (a) school (b) child (c) college (d) salary (e) service					
	(1) b,a,c,d,e	(2) a,c,b,	e,d (3) b,a,c	s,e,d (4) d,c	:,b,e,a	
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	-					

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Ans. Sol.	<b>[3]</b> b,a,c,e,d (child,	school, college, service,	salary)		
24.	In an examination a student scores 3 marks for every correct answer and loses 1 marks for every wrong answer. If he attempts 60 questions and secures 140 marks, the number of incorrect answers is				
	(1) 45	(2) 15	(3) 50	(4) 10	
Ans. Sol.	<b>[4]</b> Let no. of right question Let no. of wrong questi According to the questi	ons = w on (i) 3R – W = 14	40 (1)		
	Add eg <sup>n</sup> 910 & 92)	(ii) R + W = 60 4R = 200	R = 50	hence $W = 10$	
25.	Age difference betwee age. How old is A now (1) 36 years		After 16 years A's age (3) 26 years	will be double B's present (4) 20 years	
Ans. Sol.	[1] Let present Age of B =	x years age of A = (x + 100) year	c		
	After 16 year	A's age $(x+10+16)$ (x + 26) = 2(n - x = 26)			
Questions (26-27) Direction : Find the missing number (?) in the given figure : 26.					
	(1) 6	(2) 1	(3) 8	(4) 4	
Ans. Sol.	[2] ? +2 = 3 2+3 = 5 3+5 = 8 5+8 = 13	[?=1]			
27.	3 2				
	(1) 29	(2) 20	(3) 24	(4) 44	
Ans. Sol.	<b>[2]</b> 1×2+3 = 5 6×2+4 = 16 2×7+6 = 20				
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## Resonance

# STATE TALENT SEARCH EXAMINATION-2015 | 01-11-2015

In the given word/ figure/ sequence how many 4 are there such that just before 4 there is no even 28. number and no vowel and just after 4 there is an even number. E432M4847U8467464519BB7U

(1) 1	(2) 2	(3) 3	(4) 4		

[2] Ans.

Sol.

E432M4847U8467467464519BB7U

2 1 Hence there are only 2 4's

## Questions (29-30)

Direction : read the following information carefully to answer the given questions :

There are following rules to admit students in a Post-Graduate Management course in an institution. The candidate must -

- be a graduate with at least 50% marks i)
- not be less than 21 years on 1<sup>st</sup> December, 2014 ii)
- have paid Rs. 50,000 at the time of admission. iii)

However if a candidate fulfils all other criteria except -

- a) at (i) above, but has a working experience at least for 2 years, his/her case is to be referred to Admission President.
- b) at (iii) above, but has deposited Rs. 30,000 and rest of sum in a month, then his/her case is to be referred to Director.

Give answers with the help of the following information :

- a) The candidate is to be admitted.
- b) The candidate is not to be admitted.
- c) The case is to be referred to Admission President.
- d) The case is to be referred to Director
- Ram Sharma has secured 58% in the degree examination and he has been working for the last 4 29. years,. He was born on 28<sup>th</sup> January, 1989, He can deposit Rs. 50,000 at the time of admission. (1) a (2) b (4) d (3) c

### Ans. [1]

- Satisfies all three statements given. Sol.
- Sonu Verma is a graduate with 1<sup>st</sup> class. He has been working in an organization for last 4 years. 30. He was born on 30<sup>th</sup> july, 1988. He can deposit Rs. 35,000 at the time of admission and rest of the sum in a weak. (1) a

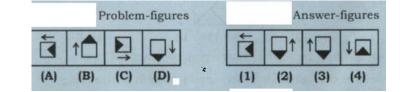
(4) d (2) b (3) c

### Ans. [4]

Sol. Satisfies statements I, II & (b)

## Question (31-32)

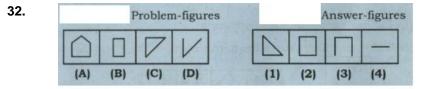
- Direction : In Question Nos. 31 and 32 there are two sets of figures. One set contains problem-figures while the other has answer-figures. There is a sequence according to which the problem-figures are arranged. You have to select one figure from the set of answer-figures which can be placed in sequence after the set of problem-figures. Find out the correct figure.
- 31.



Ans. [1]

Sol. Arrow is moving is antilock wise direction and head of the arrow going in opposite direction. Only option (1) Satisfies.





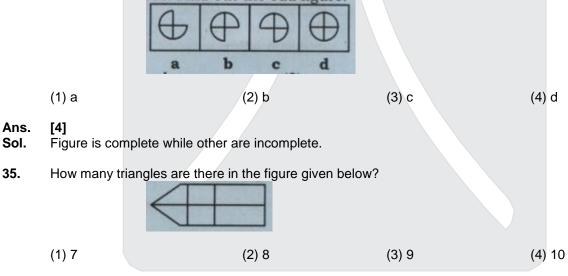
Ans. [4]

- No. of sides decreasing Sol.
- Question contains two sets of figures. Figures A, B, C, and D are problem-figures and figures 1,2,3 33. and 4 are answer-figures. There is a definite relationship between figures A and B. Establish a similar relationship between C and D by choosing a figure D from the answer-figures. समस्या-चित्र / Problem-figures उत्तर-चित्र / Answer-figures

Δ M M ? olla 00 010 oII D . (3) (A) (B) (C) (D) (1) (2) (4)

### Ans. [1]

34. In the following question there are four figures. One of these does not correlate with the rest of the figures. Find out the odd figure.



### Ans. [3]

Sol.

35.

36. How many triangles are there in the figure given below?

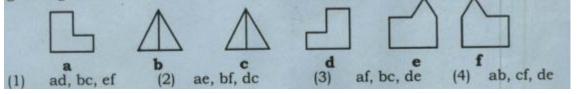


Ans. [4]

(1) 10

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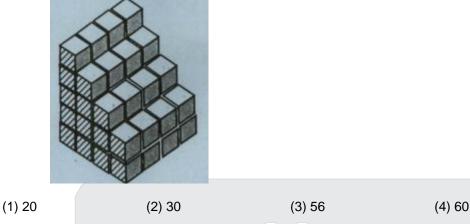
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37.	How many letters in English alphabet remain same in mirror image? (1) 8 (2) 9 (3) 10 (4) 12
Ans. Sol.	[3] No option is present in question thre are 11 letters. A,H,I,M,O,T,U,V,W,X,Y
38.	Out of the following four alternatives the mirror image of the figure(X) is $(X) = (1) (2) (3) (4)$
Ans.	[1]
39.	(1) MAVRI (5) MBARI (3) MPARI (4) MPARI
Ans.	[4]
40.	Out of the four following alternatives the water image of the given figure (X) is $ \begin{array}{c} \hline                                    $
Ans.	[3]
41.	Which of the alternatives completes the figure matrix?
Ans.	[2]
42	Which of the following alternatives represents grouping of similar figures in the given figures?.



### [1] Ans.

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**43.** The number of cubes in the given figure is



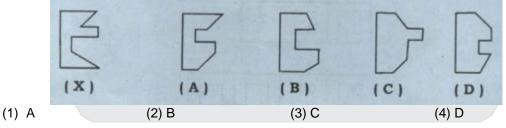
# Ans. [3]

44. The two positions of a dice are shown. Write down the number at the bottom when the top is 2:

	3 2 1	4 2 6	
(1) 1	(2) 4	(3) 5	(4) 6
 [3]			

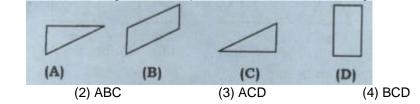
# Ans. [3]

**45.** In the following question a key figure is marked X and four alternative figures A, B, C and D are given. Select a correct alternative which fits exactly in key figure X to form complete square :



## Ans. [2]

46. Four figures A, B, C and D are given in the question. Which of the three figures will form a square?

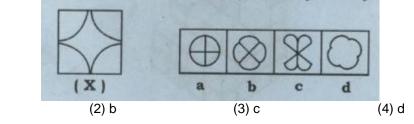


Ans. [2]

(1) ABD



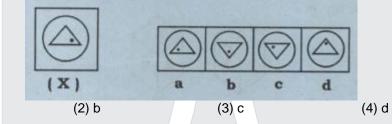
47. Which of the given alternatives will exactly make up the key-figure X?



# Ans. [1]

(1) a

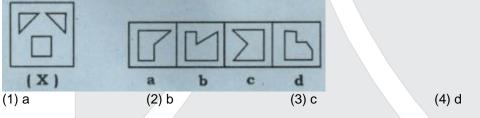
**48.** In the following figure, find out how the key figure (X) will look like after 180° anti-clockwise rotation?



# Ans. [3]

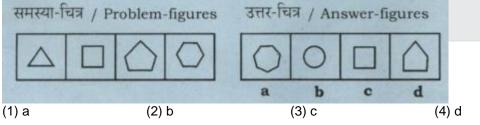
(1) a

49. Which correct answer-figure will be formed by joining the parts of the figure (X)?



# Ans. [3]

**50.** The four problem-figures have certain common patterns. Which pattern figure from answer-figures has the same pattern?



## Ans. [1]

**Sol.** No. of sides are increasing.



