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**100 LOGICAL REASONING**

**Questions**

**YOU MUST KNOW**

Exclusively prepared by SSC Focus Team

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# R.A.C.E

## Rapid Academy of Competitive Exams

### Alphanumeric Arrangement

**Directions (1-5): Study the following arrangement carefully and answer the questions given below:**

**A 5 W © X 8 U C 9 Q € 3 R Ω & \* 7  
# E + Z M β D N 4 @ 2 L % 6 \$**

1. How many such symbols are there in the given arrangement each of which is immediately followed by an odd number and also immediately preceded by a consonant?

- (a) one (b) More than three  
(c) Two (d) None  
(e) Three

2. How many such letters are there in the given arrangement each of which is immediately followed by a number and also immediately preceded by a symbol?

- (a) Two (b) None  
(c) One (d) More than three  
(e) Three

3. If all the letters dropped from the above arrangement then which will be the tenth element from the right end of the given arrangement?

- (a) 3 (b) € (c) Ω  
(d) & (e) 7

4. Which of the following is ninth to the left of the sixteenth from the left end of the given arrangement?

- (a) Q (b) U (c) 9  
(d) X (e) €

5. What should come in place of the question mark (?) in the following series based on the given arrangement?

**AW© XU9 Q3& \*#M ?**

- (a) βN\$ (b) MD2 (c) MD@  
(d) βN% (e) D46

### Solution:

1) a) There is only one such combination

$$= Q € 3$$

2) c) There is only one such combination  
= © X 8

3) e) According to question, the new sequence would be:

5 © 8 9 € 3 Ω & \* 7 # + β 4 @ 2 % 6 \$  
↑  
10<sup>th</sup> from right

4) b) 9<sup>th</sup> to the left of the 16<sup>th</sup> from the left means 7<sup>th</sup> from the left.

From (from left) and to (to left) is left. So subtract the number (16-9)=7. Then counting 7 from left end.

A 5 W © X 8 U C 9 Q € 3 R Ω & \* 7 # E + Z M β D N 4 @ 2 L % 6 \$  
↑  
7<sup>th</sup> from left

U is 7<sup>th</sup> from Left.

5) d)

+4	+5	+6	+7	
A →	X →	Q →	* →	β
+4	+5	+6	+7	
W →	U →	3 →	# →	N
+5	+6	+7	+8	
© →	9 →	& →	M →	%

Ans = β N %

### Blood Relations

1. If 'P x Q' means 'Q is sister of P', 'P+Q' means 'P is mother of Q', 'P-Q' means 'P is father of Q', 'P÷Q' means 'Q is brother of P'. Then which of the following represents 'M is the nephew of R'?

- (a) M÷T- R (b) R÷T - W  
(c) R x T+M x J (d) R÷T - M÷ J  
(e) R÷T - J÷M



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that towards which Sourav was pointing is definitely of Yuvraj.

Hence, Yuvraj is maternal uncle of Sourav.

### DIRECTION TEST

1. Reena walked from A to B in the East 10 ft. Then she turned to the right and walked 3 ft. Again she turned to the right and walked 14 ft. How far is she from A?

- (a) 4 ft                      (b) 5 ft  
(c) 24 ft                    (d) 27 ft

2. If south-East becomes North, North-East becomes west and so on. What will west become?

- (a) North-East              (b) North-west  
(c) South-East              (d) South-west

3. Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?

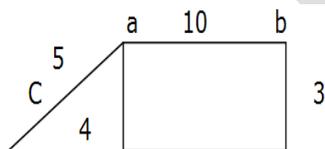
- (a) North or South        (b) East or West  
(c) North or West              (d) South or West

4. The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal in order to catch a rat. How much total distance is covered by the cat?

- (a) 10                      (b) 14                      (c) 38                      (d) 48

### Solution:

1. (b)

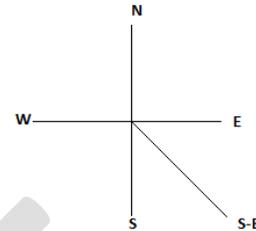


$$= \sqrt{3^2 + 4^2} = 5 \text{ feet}$$

2. (c)

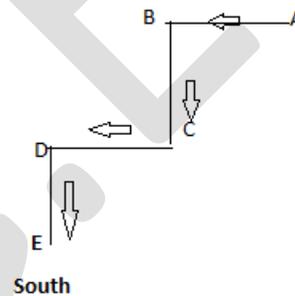
South east becomes North and North east becomes West (i.e.,) Shift  $135^\circ$  in anti

clockwise. Therefore West becomes South East.

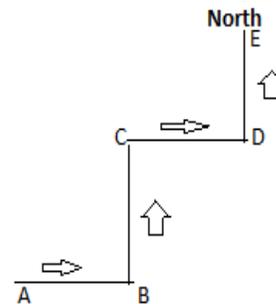


3. (a)

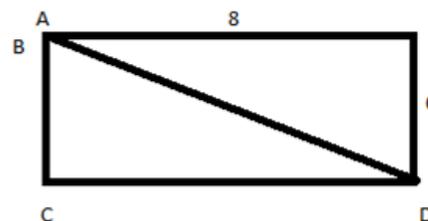
In the morning



In the evening



4.(c)



$$= 2(8+6) + \sqrt{8^2 + 6^2} = 28 + 10 = 38 \text{ m}$$

### Number Ranking

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1. In a row of students, Anil is 7<sup>th</sup> from the left while Jack is 18<sup>th</sup> from Right. Both of them interchange their positions such that Anil becomes 21<sup>st</sup> from the left. How many people are in the row?

- (a) 38 (b) 39  
(b) 40 (d) None of these

2. In a class of 45 students, a boy is ranked 20<sup>th</sup>. When two boys joined, his rank was dropped by one. What is his new rank from the end?

- (a) 25<sup>th</sup> (b) 26<sup>th</sup> (c) 27<sup>th</sup>  
(d) 28<sup>th</sup>

3. Aman is 16<sup>th</sup> from the left end in a row of boys and Vivek is 18<sup>th</sup> from the right end. Gugan is 11<sup>th</sup> from Aman towards the right and 3<sup>rd</sup> from Vivek towards the right end. How many boys are there in the row?

- (a) 40 (b) 42  
(c) 48 (d) 41

4. Pratap correctly remembers that his mother's birthday is before 23<sup>rd</sup> April but after 19<sup>th</sup> April, whereas his sister correctly remembers that their mother's birthday is not on or after 22<sup>nd</sup> April. On which day in April is definitely their mother's birthday?

- (a) 20<sup>th</sup> (b) 21<sup>st</sup>  
(c) 20<sup>th</sup> or 21<sup>st</sup> (d) cannot be determined

5. How many such pairs of digits are there in the number 421579368 each of which has as many digits between them in the number as when they are arranged in ascending order?

- (a) None (b) one  
(c) Two (d) Three

**Answer key:** 1. a 2. c 3. d 4. c 5. d

**Solution:**

1. Sol:

After interchanging their position Anil is 21<sup>st</sup> from the left, Jack is 18<sup>th</sup> from the right both are represents the same position.

So total number of people in the row  
 $= 21 + 18 - 1 = 38$

2. Sol:

In a class there are 45 students. Another two boys are added so totally 47 students.

The boy rank is already in 20<sup>th</sup> position. Now the boy rank is 21<sup>st</sup> position.

So the boy rank from the end =  $47 - 21 + 1 = 27$

3. Sol:

Aman is 16<sup>th</sup> from the left. Vivek is 18<sup>th</sup> from the Right..

Gugan is 11<sup>th</sup> from Aman so he is 27<sup>th</sup> from the left end.

Gugan's place is three place right from vivek, so gugan is 15<sup>th</sup> from the right end.

So total number of boys in the row  
 $= 27 + 15 - 1 = 41$

4. Sol:

Pratap correctly remembers that his mother birthday is on 20 or 21 or 22<sup>nd</sup> April.

His sister correctly remembers on his birthday not an 22<sup>nd</sup> April

So his mother birthday is on either 20<sup>th</sup> or 21<sup>st</sup>.

5. Sol:

Given Number : 4 2 1 5 7 9 3 6 8

Ascending order : 1 2 3 4 5 6 7 8 9

So, the required pairs are 49, 12, 16

Totally three pairs.

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### MATHEMATICAL OPERATIONS

**Directions (1-5):** In these questions, certain symbols have been used to indicate relationships between elements as follows:  
 $A * B$  means A is either equal to or greater than B.

$A \$ B$  means A is equal to B.

$A \text{ £ } B$  means A is either equal to or smaller than B.

$A \& B$  means A is smaller than B.

$A @ B$  means A is greater than B

In each question, three statements showing relationships have been given, which are followed by two conclusions I & II. Assuming that the given statements are true, find out which conclusion(s) is/are definitely true. Mark answer

A) if only conclusion I is true.

B) if only conclusion II is true.

C) if either conclusion I or II is true.

D) if neither I nor II is true.

E) if both conclusions I and II are true.

1. **Statements:**  $S * K$ ,  $T \& K$ ,  $K * B$

**Conclusions:** I.  $S \$ B$       II.  $S @ B$

2. **Statements:**  $Y \$ Z$ ,  $H \$ D$ ,  $Z * D$

**Conclusions:** I.  $D \text{ £ } H$       II.  $H \text{ £ } Z$

3. **Statements:**  $M @ N$ ,  $P @ R$ ,  $P \& N$

**Conclusions:** I.  $P \text{ £ } M$       II.  $R \& N$

4. **Statements:**  $T \& K$ ,  $K * B$ ,  $S * K$

**Conclusions:** I.  $B * T$       II.  $S \text{ £ } T$

5. **Statements:**  $P @ R$ ,  $M @ N$ ,  $P \& N$

**Conclusions:** I.  $N @ R$       II.  $P \& M$

6. If '-' stands for division, '+' stands for multiplication, '÷' stands for subtraction and '×' stands for addition, which one of the following equations is correct ?

(a)  $6 \div 20 \times 12 + 7 - 1 = 70$

(b)  $6 + 20 - 12 \times 7 - 1 = 62$

(c)  $6 - 20 \div 12 \times 7 + 1 = 57$

(d)  $6 + 20 - 12 \div 7 - 1 = 38$

7. If  $100 * 50 \$ 5 \# 10 * 1000 @ 10 = 0$ , then which of the following mathematical operations are correct?

(a) \* means +, \$ means -, # means ×, and @ means ÷

(b) \* means -, \$ means +, # means ×, and @ means ÷

(c) \* means -, \$ means +, # means ÷, and @ means ×

(d) \* means +, \$ means -, # means ÷, and @ means ×

8. If  $50 + 150 \div \frac{1}{5} + 20 \times 100 - 10 = 10$ , then which of the following mathematical operations are correct?

(a) × means ÷, + means -, ÷ means ×, and - means +

(b) × means -, + means ÷, ÷ means +, and - means ×

(c) × means +, + means -, ÷ means ÷, and - means ×

(d) × means +, + means -, ÷ means ×, and - means ÷

9. If '+' stands for division, '^' stands for multiplication, '<' stands for subtraction, '>' stands for addition, '=' stands for equal to, '×' stands for greater than, '=' stands for less than, which one of the following equations is correct ?

(a)  $14 + 7 > 3 = 6 + 3 > 2$

(b)  $6 + 3 > 8 = 4 + 2 < 1$

(c)  $4 > 6 + 2 \times 32 + 4 < 1$

(d)  $8 < 4 + 2 = 6 > 3$

10. If  $200 \times 100 + 300 \times 200 - 10 \div 2 + 40 = 0$ , which of the following mathematical operations are correct?

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(a) + means  $\times$ ,  $\times$  means  $\div$ , and  $\div$  means +

(b) + means  $\div$ ,  $\times$  means +, and  $\div$  means  $\times$

(c) + means  $\times$ ,  $\times$  means  $\div$ , and  $\div$  means +

(d) + means  $\div$ ,  $\times$  means  $\times$ , and  $\div$  means  $\times$ .

### Solution:

@	*	\$
>	$\geq$	=
<	$\leq$	=
&	£	\$

1. (c)

$S * K * B$

$S \geq K \geq B$

$S * B ; S \geq B$

(i)  $S = B$

(ii)  $S > B$

Both conclusions are wrong. So check complementary pair. It follows either option.

2. (b)

$Y \$ Z * D \$ H$

$Y = Z \geq D = H$

(i)  $D \leq H$

(ii)  $H \leq Z$ .

Conclusion (ii) only follows.

3. (b)

$M @ N @ P @ R$

$M > N > P > R$

(i)  $P \leq M$

(ii)  $R < N$

Conclusion (ii) only follows.

4. (d)

$T \& K * B ; T \& K \text{ £ } S.$

$T < K \geq B ; T < K \leq S.$

(i)  $B \geq T$

(ii)  $S \leq T$

Conclusion: Neither I nor II is follows.

5.(e)

$M @ N @ P @ R$

$M > N > P > R$

(i)  $N > R$

(ii)  $P < M.$

Both conclusions are correct

6. (a)

$$= 6 - 20 + 12 \times 7 \div 1$$

$$= 6 - 20 + 12 \times 7$$

$$= 6 - 20 + 84 = 70$$

7. (b)

$$= 100 - 50 + 5 \times 10 - 1000 \div 10$$

$$= 100 - 50 + 5 \times 10 - 100$$

$$= 100 - 50 + 50 - 100 = 0$$

8. (d)

$$= 50 - 150 \times \frac{1}{5} - 20 + 100 \div 10$$

$$= 50 - 30 - 20 + 10 = 10$$

9. (d)

$$8 - 4 \div 2 < 6 + 3$$

$$6 < 9$$

10. (b)

$$= 200 + 100 - 300 + 200 \div 10 \times 2 - 40$$

$$= 300 - 300 + 20 \times 2 - 40$$

$$= 0 + 40 - 40 = 0$$

### Syllogism

1. Statements:

No plant is a tree.

All trees are roots.

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Some branches are roots

Conclusions:

- i) All roots being plants is a possibility
- ii) Some roots are definitely trees
- iii) At least some branches are definitely not trees

- (a) Only I follow
- (b) Only II follow
- (c) Only II and III follow
- (d) Only I and II follow
- (e) All I, II and III follow

2. Statements:

No star is a galaxy.  
All galaxies are planets.  
All stars are moons.

Conclusions:

- i) Some moons if they are galaxies must be planets
- ii) Some stars which are planets may also be galaxies.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow

3. Statements:

Some apples are orange.  
No mango is an apple.  
Some Grapes are apples

Conclusions:

- i. All apples are not mangoes
- ii. All orange being grapes is a possibility
- iii. Some grapes are not mangoes

- (a) Only I follow
- (b) Only I and II follow
- (c) Only I and III follow

(d) All I, II, III follow

(e) None of these

4. Statements:

Some temples are villages.  
No village is a street.  
All streets are towns

Conclusions:

- i) Some villages are definitely not towns
  - ii) Some streets are not temples
- (a) If only conclusion I follows.
  - (b) If only conclusion II follows.
  - (c) If either conclusion I or II follows.
  - (d) If neither conclusion I nor II follows.
  - (e) If both conclusions I and II follow

5. Statements:

All doors are windows.  
Some windows are clips.

Conclusions:

- i) Some Clips, if they are doors, they are also windows.
- ii) All clips which are not windows are also not doors.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow

6. Statements:

Each speeches are translations.  
Any essays are speeches.  
Essays can never be reviews.

Conclusions:

- i) Some reviews are speeches
- ii) No reviews are essays
- iii) No reviews are translation
- iv) No reviews are speeches

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- (a) All follow
- (b) None of these
- (c) Either I or II follow
- (d) Only II, III and IV follows
- (e) Either I or IV and II follows

### 7. Statements:

Every horses are goats.  
Atleast goats are dogs.  
None of dogs are cat.  
Many cats are tigers.

Conclusions:

- i). No cat is goat
- ii). Some goats are not cats.
- iii). All dogs are horses is a possibility.
- iv). All dogs are tigers is a possibility.
- (a) Only II, III and either I or IV follow.
- (b) Only III follows
- (c) All follows.
- (d) Only II, III and IV follow

### 8. Statements:

Some trees are plants.  
All trees are houses.  
Not a single plant is pot.  
All tools are pots.

Conclusions:

- i). Some plants are tools is a possibility.
- ii). All trees are tools is a possibility.
- iii). No plant is house.
- iv). All plants are houses is a possibility.

- (a) Only I and III follow.
- (b) Either III or IV follows
- (c) Only IV follows
- (d) None follows.

### 9. Statements:

All squares are circles.  
All circles are units.  
No circle is a meter.

Conclusions:

- i).Some units which are not circles can be meters.
- ii).Some squares being meters is a possibility.
- (a) If only I follows.
- (b) If only II follows.
- (c) If either I or II follows.
- (d) If neither I nor II follows.
- (e) If both I and II follow.

### 10. Statements:

A little roofs are figures.  
All figures are lions.  
Only lions are goats.  
No tool is lion.

Conclusions:

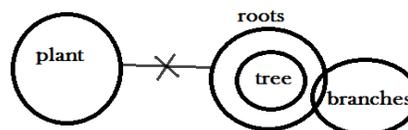
- i). Some tools are figures is a possibility.
- ii). All tools being goats is a possibility
- iii). No roof is tool.
- iv). Some goats are figures
- (a) Only II and IV follow
- (b) Only I and II follow
- (c) Only either I or II and IV follow
- (d) None follows.

### Answer key:

1.b 2.a 3.d 4.d 5.e 6.e 7.d 8.c 9.a 10.a

Solution:

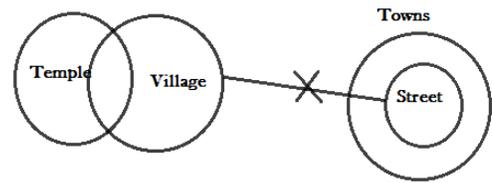
1. Sol:



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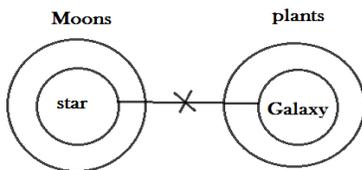
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- i) Since no plants are trees. There is No possibility of all roots being plants.  
 ii) In statement there is all trees are roots, so some roots are tree is definitely True.  
 iii) There is no connection between branches and trees, so no definite conclusion between branches and trees.  
 So only II follows.



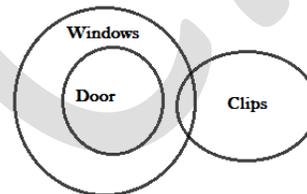
- i) While combining the statements II and III it will give 'some towns are not village' only, Hence Conclusion I will not follow.  
 ii) While combining the statements I and II, 'Some temples are not street' only will come. Reverse, conversion will not be possible in case of 'some not statement'. So II will not follow.  
 So here Neither I or II follow.

2. Sol:



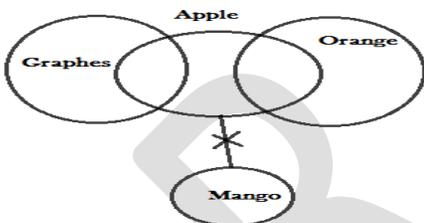
- i) Galaxy is inside the planet, so if moon is inside the Galaxy it will be also inside the planet.  
 ii) There is no connection between star and galaxy. So, stars if they are inside the planet may not necessarily be inside galaxy.  
 So Only conclusion I follow.

5. sol:



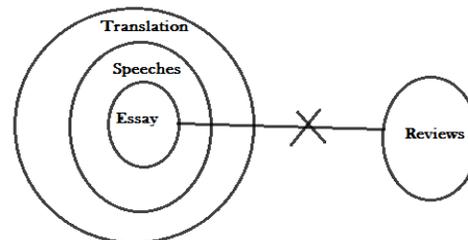
- i) Here doors are inside the windows So if clips are inside the door it also inside the windows.  
 ii) Doors are inside the windows .So, if clips are not inside the windows it also not inside the door.  
 Here both conclusion I and II follows.

3. Sol:



- i) When no mango is apple, we can come to a conclusion all apple is not mango.  
 ii) If we draw all orange inside the Grapes, this does not affect the given statement. So it is possible.  
 iii) Since no apple is mango, grapes that are apple cannot be mango.  
 So All I, II, III follows.

6.sol:



- i) There is no direct connection between Review and Speeches.

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ii) From statement, they given No reviews are essays, from that we derive that, it's a definite conclusion.

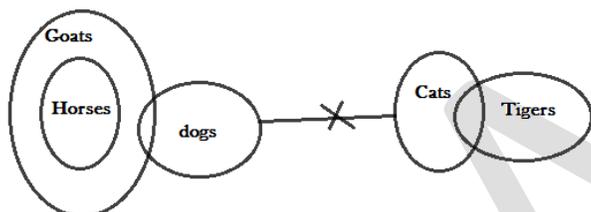
iii) In statement they don't given any relationship between reviews and translation, So no definite conclusion derive for reviews and translation.

iv) No relationship between review and speeches in the statement So it doesn't follow.

Therefore, at independent cases conclusion (i) and (iv) will not follow. But these two conclusions satisfy the criteria for complimentary.

Therefore either (i) or (iv) and (ii) follows

7. Sol:



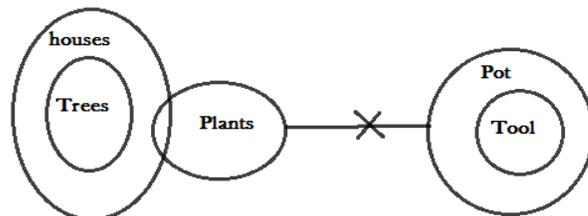
i) There is no direct connection given in the statement for goats and cats. So No definite conclusion is derived for cats and goats.

ii) Here dogs and cats are in no relation, and some goats are inside dogs, so we can definitely say that some goats that are inside dogs are not cats.

iii) If we change all dogs are inside the horses there is no change in the statement So it follows.

iv) If we change all dogs are inside the tigers, there is no changes in the statement. So it follows.

8. Sol:



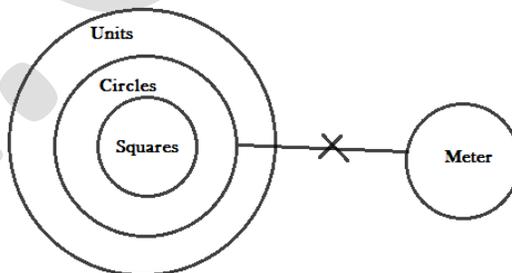
i) Tools are inside the pot and plants are in no relation, So the plants are inside the tool is not be possible.

ii) Trees are related with plants and, plants and tools are in no relation, So trees are inside tool is not possible.

iii) Plants and house are in some relation, we can't say plants and house in no relation. So it is not possible.

iv) Plants and houses are in some relation, So All plants are house is possible

9. Sol:



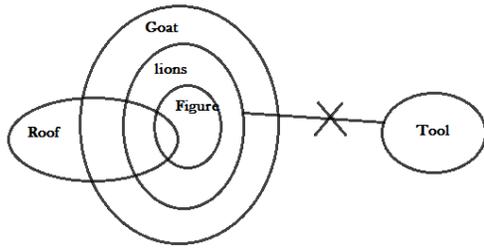
i) Circles are inside the units, So some units are outside the circles. Circle and meter only are in no relation, so meter are inside units which are not circle is possible.

ii) Squares are inside the circles. Circle and meter are in no relation .So some square be inside the meter is not possible.

10. Sol:

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- i) Lions and tool are in No relation. Figures are inside the lion. So it is not possible.
- ii) If we draw all tool inside the goats, it will not affect the statements. So it is Possible.
- iii) In statements there is no direct relation between roof and tool. So it is not follows.
- iv) All figures are inside the goat, so some goats are figure is possible.

### Coding Decoding

1. If PARK is coded as GAIB, then how will you code TONY?

- (a) BEGF                      (b) FGLE
- (c) BFEG                      (d) GECF
- (e) GEFC

2. If HONESTY is coded as MLSVBGH, then how will you code RAINBOW?

- (a) WXSEKBI                (b) SXWIBKE
- (c) MRZIDLY                (d) RZIMDLY
- (e) IZRNYLD

3. If in a certain code language 'KAMLESH' is written as 'GUJLMCO', then how will 'NATURAL' be written in that language?

- (a) TUMAXUO                (b) TCOUPVC
- (c) TCNUPCV                (d) TCNPUCV
- (e) TCOUVCP

4. In a certain code language 'very large risk associated' is written as 'nu ta ro gi', 'risk is very low' is written as 'gi se nu mi', 'is that also associated' is written as 'ta mi po fu', 'inherent risk also damaging' is written as 'fu nu di yu'. What does the code 'di' stand for?

- (a) inherent                (b) damaging

(c) risk                      (d) also

(e) cannot be determined

5. If in a certain language 'JNU' is written as '101714132106', then how will 'PUSA' be written in that language?

- (a) 1611210619086201
- (b) 1611210619080162
- (c) 1611210619080126
- (d) 1161216019080126
- (e) 1116120691802601

6. If CAMERA is coded as ZIVNZX in a certain code language, then how would you code SOLVED in that code language?

- (a) ZIKSZX                      (b) HLWOEX
- (c) WHLXEO                      (d) HLOEVW
- (e) WVEOLH

Directions (Q.Nos. 7-8) In each question below, is given a group of letters followed by four combinations digits/symbols numbered (a), (b), (c), (d) and (e). You have to find out which of these combinations is correct based on the conditions given below:

Letter	R	E	A	U	M	D	F	P	Q	I	O	H	N	W	Z	B
Digit/Symbol	7	#	\$	6	%	8	5	*	4	9	@	©	3	d	1	2

Conditions:

- (i) If the first letter is a consonant and the third letter is a vowel, their codes are to be interchanged.
- (ii) If the first letter is a vowel and the fourth letter is a consonant, both are to be coded as the code for the vowel.
- (iii) If the second and the third letters are consonants, both are to be coded as the code for the third letter.

7. FWZERA

- (a) 5d#7\$                      (b) 5dd#7\$
- (c) d17#\$                      (d) 511#7\$
- (e) 515\$7#

8. OREDHM

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- (a) @7#8©%                      (b) #7#8©%  
 (c) @78#©%                      (d) @7#@©%  
 (e) @78@©%

9. If in a certain code language 'NORMAL' is coded as 'RMVKEJ', then how will 'RAMESH' be coded in that language?

- (a) VYQWFC                      (b) VYQFWC  
 (c) VYQCFW                      (d) VYQCWF  
 (e) YVCQFW

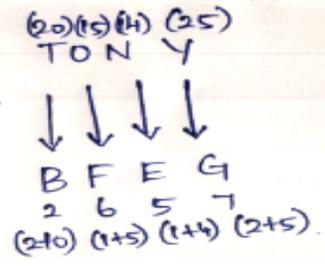
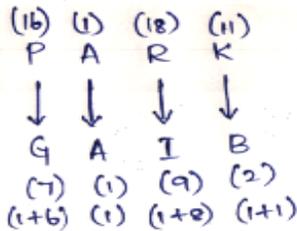
10. In a certain code language, 'po ki top ma' means 'Usha is playing cards', 'kop ja ki ma' means 'Asha is playing tennis', 'ki top sop ho' means 'they are playing football' and 'po sur kop' means 'cards and tennis'. Which word in that language means 'Asha'?

- (a) ki  
 (b) kop  
 (c) ja  
 (d) cannot be determined  
 (e) ma

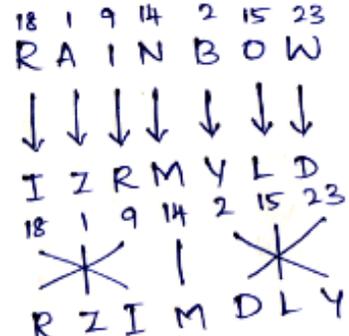
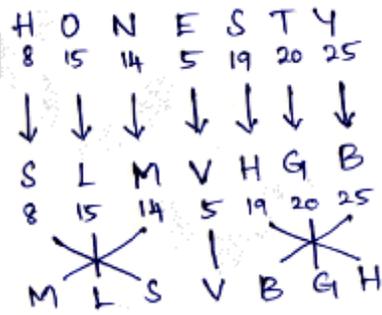
**Answer Key:** 1.(c), 2.(d), 3.(c), 4.(e), 5.(c), 6.(e), 7.(d), 8.(d), 9.(d), 10.(c)

**Solution:**

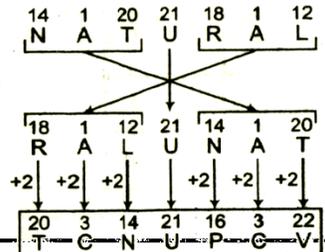
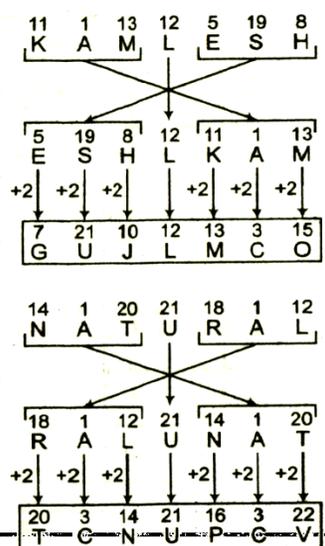
1.



2.



3.



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4. In these, 'di' stands for either 'damaging' or 'inherent'. So, given data is inadequate.

5. For 'J', alphabet numbering in forward is 10 and backward is 17, by combining both we get 1017

J      N      U  
↓      ↓      ↓  
1017 1413 2106

Similarly,  
P      U      S      A  
↓      ↓      ↓      ↓  
1611 2106 1908 0126

6.

	3	1	13	5	18	1
	C	A	M	F	R	A
	↓	↓	↓	↓	↓	↓
Numbering forward -	24	26	14	22	9	26
	↓	↓	↓	↓	↓	↓
Backward -	3	1	13	5	18	1

XZNVIZ  
Reverse Order ↓  
ZIVNZX

	19	15	12	22	5	4
	S	O	L	V	E	D
	↓	↓	↓	↓	↓	↓
	H	L	O	E	V	W
Numbering forward -	8	12	15	5	22	23
Backward -	19	15	12	22	5	4

H L O E V W

Reverse order ↓

W V E O L H

7. When no condition is applied, the coding is done as follows.

F	W	Z	E	R	A
↓	↓	↓	↓	↓	↓
5	d	1	#	7	\$

But here the second and third letters are consonants, therefore condition (iii) is applied here. As condition (iii) is applied here, both the second and third letters are to be coded as the code for the third letter.

F	W	Z	E	R	A
↓	↓	↓	↓	↓	↓
5	1	1	#	7	\$

8. When no condition is applied, the coding is done as follows.

O	R	E	D	H	M
↓	↓	↓	↓	↓	↓
@	7	#	8	©	%

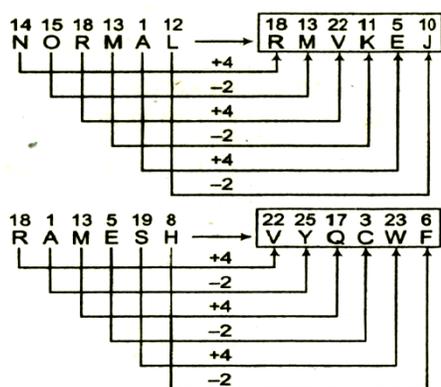
But here the first letter is a vowel and the fourth letter is a consonant, therefore condition (ii) is applied. As condition (ii) is applied here, both the first and fourth letters are to be coded as the code for the vowel.

O R E D H M

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9.



10. From the questions, it is clear that the code for 'Asha' is 'ja'.

### Seating Arrangement

Directions (1-5): Study the

following information and answer the questions given below.

Eight people E, F, G, H, J, K, L and M are sitting around a circular table facing the centre. Each of them is of a different profession Chartered Accountant, Columnist, Doctor, Engineer, Financial Analyst, Lawyer, Professor and Scientist but not necessarily in the same order. F is sitting second to the left of K. The Scientist is an immediate neighbour of K. There are only three people between the Scientist and E. Only one person sits between the Engineer and E. The Columnist is to the immediate right of the Engineer. M is second to the right of K. H is the Scientist. G and J are immediate neighbours of each other. Neither G nor J is an Engineer. The Financial Analyst is to the immediate left of F. The Lawyer is second to the right of the Columnist. The Professor is an immediate neighbour of the Engineer. G is

second to the right of the Chartered Accountant.

1. Who is sitting second to the right of E?

- (a) The Lawyer (b) G  
(c) The Engineer (d) F (e) K

2. Who amongst the following is the Professor?

- (a) F (b) L (c) M (d) K (e) J

3. Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which of the following does not belong to that group?

- (a) Chartered Accountant - H  
(b) M - Doctor (c) J - Engineer  
(d) Financial Analyst - L (e) Lawyer - K

4. What is the position of L with respect to the Scientist ?

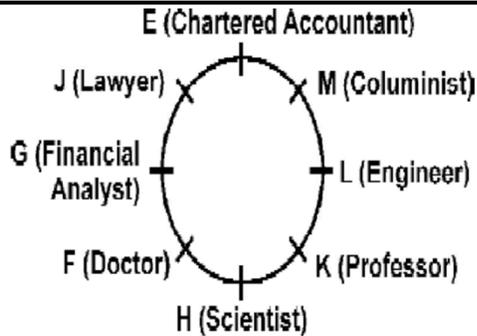
- (a) Third to the left  
(b) Second to the right  
(c) Second to the left  
(d) Third to the right  
(e) Immediate right

5. Which of the following statements is true according to the given arrangement?

- (a) The Lawyer is second to the left of the Doctor  
(b) E is an immediate neighbour of the Financial Analyst  
(c) H sits exactly between F and the Financial Analyst  
(d) Only four people sit between the Columnist and F  
(e) All of the given statements are true.

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6. Which of the given statement is wrong?  
 (a) U is immediate right of S  
 (b) T is immediate left of P  
 (c) Q is sitting between U and V  
 (d) R is second to left of W  
 (e) V is second to right of U

7. Who is second to the left of P?  
 (a) Q (b) V (c) R (d) S (e) U

8. How many persons are sitting between P and Q when we count anticlockwise?  
 (a) 2 (b) 3 (c) 4 (d) none  
 (e) Cannot be determined

9. How many members are there in W's family?  
 (a) 2 (b) 3 (c) 5  
 (d) cannot be determined  
 (e) None of these

10. One group out of five groups does not match on the basis of sitting arrangement. Find that group-  
 (a) USQ (b) RVT (c) TRP  
 (d) WPS (e) RVQ

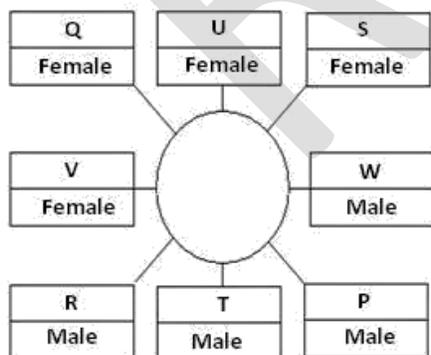
- Answer Key:** 6. (d), 7.(c), 8.(b), 9.(d), 10.(e)

**Direction (11-15):** L, N, P, R, M, Q, T and Y are the members of a committee sitting around a circular table but not facing the centre. Each member has a different zodiac sign, viz Leo, Virgo, Libra, Cancer, Aries, Gemini, Pisces and Scorpio, but not necessarily in the same order. T is third to the right of P. The one whose sun-sign Leo is second to the left of the one whose sun-sign is Libra.

**Answer Key:** 1. (b), 2. (d), 3. (c), 4. (b), 5.(a)

**Direction (6-10):** Study the following information and answer the questions given below:

Eight persons P, Q, R, S, T, U, V, W from two families are taking breakfast around a round table. Three members are from one family and five belong to other family. Four of them are male members. T, a male member is sitting second to right of V, a female member. In all cases R has same position with respect to S, who is second to left of Q, a female member. S is wife of W and is sitting adjacent to her husband. U is sister of W and is not sitting between V and T. Q is immediate left of V. W is sitting immediate right of P.



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Y's sun-sign is Libra and is sitting exactly between P and L. The one whose sun-sign is Pisces sits second to the right of N. The one whose sun-sign is Aries is second to the right of the person whose sun-sign is Gemini. P sits third to the left of the person whose sun-sign is Virgo. Neither Q nor L is the immediate neighbour of N. Q is fourth to the left of L. N's sun-sign is neither Cancer nor Ariel. The person whose sun-sign is Leo is sitting second to the right of the person whose sign is Cancer. R's sun-sign is Leo and is not an immediate neighbour of N.

15. What is the sun-sign of P?  
(a) Gemini (b) Libra (c) Leo  
(d) Can't be determined (e) None of these

**Answer Key:** 11.(b), 12.(e), 13.(d), 14.(c), 15.(a)

### PUZZLE TEST

1. **Study the following information and answer the following questions:**

A,B,C,D,E,G and I are seven friends who study in three different standards namely 5<sup>th</sup>,6<sup>th</sup> and 7<sup>th</sup> such that no less than two friends study in the same standard. Each friend also has a different favourite subject namely History, Civics, English, Marathi, Hindi, Maths and Economics but not necessarily in the same order. A likes Maths and studies in the 5<sup>th</sup> standard with only one other friend who likes Marathi. I studies with two other friends. Both the friends who study with I like languages (Here, language include only Hindi, Marathi and English).D studies in the 6<sup>th</sup> standard with only one person who does not like civics. E studies with only one friend. The one who likes History does not study in 5<sup>th</sup> or 6<sup>th</sup> standard. E does not like languages. C does not like English, Hindi or civics.

1. Which of the following I's favourite subject?

- (a) History (b) Civics (c) Marathi  
(d) Either English (or) Marathi  
(e) Either English (or) Hindi

2. Who amongst the following studies in the 7<sup>th</sup> standard?

- (a) G (b) C (c) E (d) D  
(e) Either D or B

11. Which of the following is N's sun-sign?  
(a) Pisces (b) Scorpio  
(c) Gemini (d) Can't be determined  
(e) None of these
12. Who sits third to the right of L?  
(a) P (b) Y (c) R  
(d) Q (e) None of these
13. What is Y's position with respect to Q?  
(a) Third to the left  
(b) Fourth to the left  
(c) Second to the right  
(d) Third to the right (e) 2nd to the left
14. How many persons are there between P and N?  
(a) None (b) Two (c) Three  
(d) Four (e) None of these

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3. Which combination represents E's favourite subject and the standard in which he studies?

- (a) Civics and 7<sup>th</sup>
- (b) Economics and 5<sup>th</sup>
- (c) Civics and 6<sup>th</sup>
- (d) History and 7<sup>th</sup>
- (e) Economics and 6<sup>th</sup>

4. Which of the following subjects does G like?

- (a) Either Maths (or) Marathi
- (b) Either Hindi (or) English
- (c) Either Hindi (or) Civics
- (d) Either Hindi (or) Marathi
- (e) Either Civics (or) Economics

5. Which of the following combinations is definitely correct?

- (a) I and Hindi
- (b) G and English
- (c) C and Marathi
- (d) B and Hindi
- (e) E and English

**2. Study the following information carefully and answer the questions given below:**

Eight persons – A, B, C, D, E, F, G and H are travelling in three different cars namely X, Y and Z, but not necessarily in the same order. There are at least two persons in each car and each car has persons of both the gender. Out of eight persons three are females. All of them like different colours Viz, Red, Green, Yellow, Blue, Black, White, Grey and purple but not necessarily in the same order. One female does not like Grey or White colour. D is travelling with G in the car Z. G likes Black colour. The persons who like Red and purple colours, are travelling in the same car. E does not like purple colour and he is not travelling with H in the same car. A does not like purple nor Red Colour. H

is travelling in the car Y. B, C and H are females in the group. B likes Blue colour and travels with the person who likes Black colour. Red and green colours are liked by female members. The person, who is travelling with H, likes Grey colour. One of the person travelling in car Z likes Yellow colour.

6. In which of the following cars only two persons are travelling?

- (a) car X
- (b) car Y
- (c) car Z
- (d) cannot be determined
- (e) None of these

7. The female member who is travelling in the car X likes which colour?

- (a) Green
- (b) Blue
- (c) Yellow
- (d) Red
- (e) None of these

8. Who among the following likes Yellow colour?

- (a) D
- (b) E
- (c) A
- (d) F
- (e) None of these

9. Who among the following is/are travelling with female member C?

- (a) E and G
- (b) A and D
- (c) E and F
- (d) D and E
- (e) F and G

10. Which of the following combinations of person-car-colour is not correct?

- (a) C-X-Red
- (b) F-X-purple
- (c) G-Z-Black
- (d) D-Z-Yellow
- (e) E-Y-Grey

**SOLUTION: -**

1. **SOL: -**

- (i) A likes maths and studies in 5<sup>th</sup> standard with only one friend.
- (ii) D studies in 6<sup>th</sup> standard.

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(iii) According to information ,A and D do not like history as they study in 5<sup>th</sup> and 6<sup>th</sup> standards respectively.

(iv) E does not like language and studies with only one friend.

(v) C does not like English, Hindi Or Civics.

(vi) A and D are not in the same standard.

**Now we consider the facts (2<sup>nd</sup> information) that are not given but definitely follow:**

(i) E, I and C cannot study in the same standard as E does not like language and C does not like English.

From here we can deduce that I,B and G study in 7<sup>th</sup> standard. Information says that A studies with one friend in 5<sup>th</sup> standard and D studies with one friend in 6<sup>th</sup> standard. Also E and I cannot study in the same standard as I's friends Like languages.

(ii) Friends of I, that is, B and G like languages (Marathi, English and Hindi).Definitely I studies History Because no student of 5<sup>th</sup> and 6<sup>th</sup> standards studies history.

	SUBJECT							Standard		
	History	Civics	English	Marathi	Hindi	Maths	Economics	5th	6th	7th
<b>A</b>	X	X	X	X	X	√	X	√	X	X
<b>B</b>	X	X		X		X	X	X	X	√
<b>C</b>	X	X	X	√	X	X	X	√	X	X
<b>D</b>	X	√	X	X	X	X	X	X	√	X
<b>E</b>	X	X	X	X	X	X	√	X	√	X
<b>G</b>	X	X		X		X	X	X	X	√
<b>I</b>	√	X	X	X	X	X	X	X	X	√

As we see table there are four blank spaces that indicates B or G studies English or Hindi. It cannot be said definitely who (B or G) studies which languages (English or Hindi).

<b>C</b>	Female	X	Red
<b>D</b>	Male	Z	Yellow
<b>E</b>	Male	X	White
<b>F</b>	Male	X	Purple
<b>G</b>	Male	Z	Black
<b>H</b>	Female	Y	Green

### ANSWER: -

- 1) a) I's favourite subject is History.
- 2) a) 'G' studies in 7<sup>th</sup> standard.
- 3) e) E's favourite subject is Economics and studies in 6<sup>th</sup> standard.
- 4) b) G likes Hindi or English.
- 5) C) C and Marathi is true.

### 2. SOL: -

PERSON	GENDER	CAR	COLOR
<b>A</b>	Male	Y	Grey
<b>B</b>	Female	Z	Blue

- 6) b) A and H are travelling in the car Y.
- 7) d) C is the female member in the car X. She likes Red colour.
- 8) a) D likes yellow colour.
- 9) c) E and F are travelling with C.
- 10) e) The combination E-Y-Grey is not correct. E travels in car X and he likes white colour.

### Data Sufficiency Test

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- 1)  
I). A is the son of B.  
II). C, B's sister has a son D and a daughter E.  
III). F is the maternal uncle of D.  
How is F related to A?  
To get the answer how many statements are required?  
(a) I and II only                      (b) II only  
(c) III and II only                      (d) All the Three  
(e) Data insufficient
- 2) Three persons payal, chamba and Robin are standing in a queue for getting into the train.  
I) There are two persons between payal and champa and four persons champa and Robin.  
II) If there are two persons ahead of robin and twelve behind payal  
III) Among the three robin is the first person standing in the queue  
What could be the maximum number of persons in the queue?  
To get the answer how many statements are required.  
(a) All the three                      (b) II and III  
(c) I and II                              (d) I and III  
(d) Data insufficient
- 3)  
I) A is at a distance of 20m from the North West of B and C is at a distance of 10m from the south of B  
II) C, D and E are in straight line. F is at the distance of 40m from the Southwest of D.  
III) Person standing at the extreme West is A.  
IV) Distance between C and B is 12m and Distance between C and D is 12m.  
Who is at the extreme south?
- To get the answer how many statements are required?  
(a) I, II and III                      (b) I, II and IV  
(c) II and IV                              (d) All the four  
(d) Data insufficient.
- 4) Question: How is X related to Y?  
Statements:  
I) Y says, "I have only one brother".  
II) X says, "I have only one sister".  
(a) I alone is sufficient while II alone is not sufficient  
(b) II alone is sufficient While I alone is not sufficient  
(c) Either I or II is sufficient  
(d) Neither I nor II is sufficient  
(e) Both I and II are sufficient
- 5) What does 'ja' represent in a code language?  
I) In the code language "pik ja sok pot" means "you can stay here".  
II) In that code language "jo sok pot te" means "you may come here"  
III) In that code language "ze jo fe te" means "may I come in"  
(a) All the three                      (b) II and III  
(c) I and II                              (d) I and III  
(e) Data insufficient
- 6) How many children are there in the row of children facing North?  
Statements:  
I) Vishakha who is fifth from the left end is eighth to the left of Ashish who is twelfth from the right end.  
II) Rohit is fifth to the left of Nisha who is seventh from the right end and eighteenth from the left end.  
(a) I alone is sufficient while II alone is not sufficient

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- (b) II alone is sufficient while I alone is not sufficient  
(c) Either I or II is sufficient  
(d) Neither I nor II is sufficient  
(e) Both I and II are sufficient
- 7) On a T.V. channel, four serials A, B, C and D were screened, one on each day, on four consecutive days but not necessarily in that order. On which day was the serial C screened?

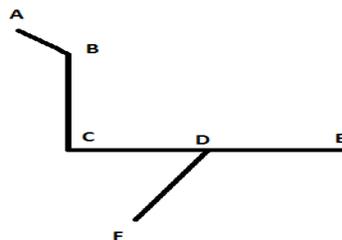
Statements:

- I) The first serial was screened on 23rd, Tuesday and was followed by serial D.  
II) Serial A was not screened on 25th and one serial was screened between serials A and B.

- (a) I alone is sufficient while II alone is not sufficient  
(b) II alone is sufficient while I alone is not sufficient  
(c) Either I or II is sufficient  
(d) Neither I nor II is sufficient  
(e) Both I and II are sufficient

### Solution:

- 1) (e) Gender of B is unknown so it is not clearly known whether F is maternal uncle or paternal uncle. Hence data is insufficient.  
2) (c) From the statement I it is clear that among the 3 robin and payal were on the sides and also number of persons between payal and robin is known.  
From the second statement number of people on sides is known.  
Hence from statement I and II, we can find the number of persons.  
3) (a) Keeping in mind the third statement we can draw the map.



4) (d) The statements in I and II do not provide any clue regarding relation between X and Y.

5) (e) ja represent either can or stay so data is insufficient.

6) (c) Since 8th to the left of 12th from the right is 20th from the right, so from I, we know that Vishakha is 5th from left and 20th from right i.e. there are 4 children to the left and 19 to the right of Vishakha. So, there are  $(4 + 1 + 19)$  i.e. 24 children in the row. From II, Nisha is 7th from right and 18th from left end of the row.

So, there are  $(6 + 1 + 17) = 24$  children in the row.

7) (e) From I, we know that the serials were screened on 23rd, 24th, 25th and 26th.

Clearly, D was screened second i.e. on 24th, Wednesday.

From II, we know that one serial was screened between A and B.

So, A and B were screened first and third, i.e. on 23rd and 25th. But, A was not screened on 25th.

So, A was screened on 23rd and B on 25th. Thus, C was screened on 26th, Friday.

### Sequential Output Tracing

**Directions(1-3):** Study the following information to answer the given questions. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.(All the numbers are two-

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digit numbers and are arranged as per some logic based in the value of the number.)

**Input:** win 56 32 93 bat for 46 him 28 11  
give chance

Step I: 93 56 32 bat for 46 him 28 11 give  
chance win

Step II: 11 93 56 32 bat for 46 28 give  
chance win him

Step III: 56 11 93 32 bat for 46 28 chance  
win him give

Step IV: 28 56 11 93 32 bat 46 chance win  
him give for

Step V: 46 28 56 11 93 32 bat win him give  
for chance

Step VI: 32 46 28 56 11 93 win him give for  
chance bat.

Step VI is the last step of the arrangement  
of the above input.

As per the rules followed in the above steps,  
find out in each of the following questions  
the appropriate steps for the given input.

Input for the questions:

**Input: fun 89 at the 28 16 base camp 35  
53 here 68**

1. Which of the following would be step II ?

a. 89 fun at 28 16 base camp 35 53 here 68  
the

b. 35 53 28 68 16 89 the here fun camp base  
at

c. 16 89 at fun 28 camp base 35 53 68 the  
here.

d. 53 28 68 16 89 35 the here fun camp base  
at

e. None of these

2. Which word/number would be at seventh  
position from the left in step IV?

(a). base (b). at (c). 35

(d). The (e). 53

3. Which step number would be the following  
output ?

53 28 68 16 89 at 35 the here fun camp  
base

(a). There will be no such step

(b). III (c). II (d). V

(e). IV

Direction (4-7): Study the following  
information carefully answer the given  
questions.

A word arrangement machine when given an  
input line of words rearranges them following  
a particular rule in each step. The following  
is an illustration of input & rearrangement.

**Input: In up what ment also reactor  
next down**

Step I: also in up what ment reactor next  
down

Step II: also down in up what ment reactor  
next

Step III: also down in ment up what reactor  
next

Step IV: also down in ment next up what  
reactor

Step V: also down in ment next reactor up  
what

Step VI: also down in ment next reactor  
what up

As rules followed in the above steps, find out  
in each of the following questions the  
appropriate step for the given input:

**Input: nero hat and two be such very for**

4. Which of the following would be the last  
step of the rearrangement?

(a) II (b) IV (c) III (d) IV

(e) None of these

5. In step VI which of the following would be  
at 5<sup>th</sup> position from the left?

(a) nero (b) and (c) for

(d) hat (e) None of these

6. Which of the following is step II?

(a) and be nero hat such for very two

(b) and nero two be heat such for very

(c) and be hero hat such for very two

(d) and be nero hat two such very for

(e) none of these

7. Step IV of an input is: and be for hat nero  
two such very

Which of the following is definitely input?

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- (a) axe be hood now set fax van table
- (b) axe boat new hood set fax van table
- (c) axe new hood boat set fax van table
- (d) cannot be determined
- (d) none of these

**Direction (8-10):** Study the following information carefully answer the given questions.

The admission ticket for an exhibition bears a password which is changed after every clock hour based on set of words chosen for each day. The following is an illustration of the code and steps of rearrangement for subsequent clock hours. The time is 9 a.m to 3 p.m

### Day's first password:

First Batch ---- 9 a.m to 10 a.m  
is not ready cloth simple harmony burning  
Second Batch ---- 10 a.m to 11 a.m  
ready not is cloth burning harmony simple  
Third Batch ---- 11 a.m to 12 noon  
cloth is not ready simple harmony burning  
Fourth Batch ---- 12 noon to 1 p.m  
not is cloth ready burning harmony simple  
Fifth Batch ---- 1 p.m to 2 p.m  
ready cloth is not simple harmony burning  
And so on....

8. If the password for 11 a.m to 12 noon was --- "soap shy miss pen yet the she"  
What was the password for the first batch?

- (a) pen miss shy soap she the yet
- (b) shy miss pen soap yet the she
- (c) soap pen miss shy she the yet
- (d) miss shy soap pen she the yet

9. If the password for 1 p.m to 2 p.m was ---  
-"more commentary the match even interesting than"  
What was the password for the 10 a.m to 11 a.m batch?

- (a) match commentary even more than the interesting
- (b) more than interesting the even commentary match

- (c) more match the commentary than interesting even
- (d) commentary interesting more the than even match

10. 1.If the password for First batch was ---  
"see sleep something your not in that"  
What was the password for the sixth batch?

- (a) something sleep see your not in that
- (b) see something sleep that your not in
- (c) see your something in sleep not that
- (d) see something your sleep that in not

### Answer key:

1.e 2.c 3.d 4.b 5.a 6.d 7.d 8.b 9.c 10.d

### Solutions (1-10):

#### (1-3)

The word and number arrangement machine rearranges the input with the logic that in step I, it shifts the largest number to the left-most place and the last word coming in English alphabetical series to the rightmost place. In step II, it shifts the smallest number to the leftmost place and the next word (in reverse alphabetical order) to the rightmost. In Step III 2<sup>nd</sup> largest number is shifted to the leftmost place and so on.

**Input: fun 89 at the 28 16 base camp 35 53 here 68**

**Step I:** 89 fun at 28 16 base camp 35 53 here 68 the

**Step II:** 16 89 fun at 28 base camp 35 53 68 the here

**Step III:** 68 16 89 at 28 base camp 35 53 the here fun

**Step IV:** 28 68 16 89 at base 35 53 the here fun camp

**Step V:** 53 28 68 16 89 at 35 the here fun camp base

**Step VI:** 35 53 28 68 16 89 the here fun camp base at

#### (4-7)

Input: gem bed ox yeast quantity head kilo show

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Step I: yeast gem bed ox quantity head kilo show

Step II: yeast show gem bed ox quantity head kilo

Step III: yeast show quantity gem bed ox head kilo

Step IV: yeast show quantity ox gem bed head kilo

Step V: yeast show quantity ox kilo gem bed head

Step VI: yeast show quantity ox kilo head gem bed

### 8-10

8. Sol:

Third batch (11 a.m to 12 noon) was

Soap shy miss pen yet the she

Second batch (10 a.m to 11 p.m):

Pen miss shy soap she the yet

First batch (9 a.m to 10 p.m):

Shy miss pen soap yet the she

9. Sol:

1 p.m to 2 p.m password was -  
more commentary the match even  
interesting than

12 noon to 1 p.m was -  
Match the commentary more than  
interesting even

11 a.m to 12 noon was -  
Commentary the match more even  
interesting than

10 a.m to 11 a.m was -  
More match the commentary than  
interesting even

10. Sol:

First batch password was -

See sleep something your not in that

Second batch -

Something sleep see your that in not

Third batch -

Your see sleep something not in that

Fourth batch -

Sleep see your something that in not

Fifth batch -

Something your see sleep not in that  
Sixth batch -

See your something sleep

### Statement Problems

**Directions (Q 1 – 3):** In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. 'strong' arguments are those which are both Important and directly related to the question. 'weak' arguments are those which are minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question. Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

#### Give answer:

(a) If only Argument I Strong.

(b) If only Argument II Strong.

(c) If either Argument I or II Strong.

(d) If neither Argument I nor II Strong.

(e) If both Arguments I and II Strong.

#### 1. Statement:

Should the Government immediately stop registration of new cars for private use throughout the country with immediate effect?

#### Arguments:

I. No, the Government does not have authority to do so.

II. Yes, this is the only way to decongest the roads of big cities in India.

#### 2. Statement:

Should the management of all the private hospitals in India be taken over by the Government?

#### Arguments:

I. Yes, this will significantly improve the services rendered by these hospitals to the patients.

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II. No, the Government does not have enough financial and human resources to manage these hospitals

**3. Statement:** Should the Government construct big dams across all the major rivers in India in multiple locations?

**Arguments:**

I. No, this will destroy the ecosystem of the entire country.

II. Yes, this will ensure adequate supply of water for irrigation throughout country.

**Directions(4 -5):** in each question below is given a statement followed by three assumptions (A),(B) and (C).An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions are implicit in the statement.

**4. Statement:**

The police authority cordoned off the entire locality for the entire day and stopped all vehicular movement for the visit of a top functionary of the government in view of the threat perception and advised all the residents in the area to limit their movement outside their dwellings.

Which of the following assumptions is/are implicit in the above statement?

(A) The police personnel may not be able to control the vehicular movement in the locality and may seek help from the armed forces.

(B) People living in the locality may move out of their houses for the day to avoid inconvenience.

(C) The Govt functionary may request the police authority to lift the ban on the movement of residents of the locality outside their dwellings.

(a) None is implicit

(b) only (A) is implicit

(c) only (B) is implicit

(d) only (D) is implicit

(e) only (B) and (C) is implicit

**5. Statement:** The apex body controlling universities in the country has decided to revise the syllabus of all the technical courses to make them focused towards the present needs of the industry, thereby making the technical graduates more employable than they are at present.

Which of the following assumptions is/are implicit in the above statement?

(A) Technical colleges affiliated to different universities may not welcome the apex body's decision and may continue with the same syllabus as at present.

(B) The industry may welcome the decision of the apex body and scale up their hiring from these colleges.

(C) The Govt may not allow the apex body to implement its decision in all the colleges as it may lead to chaos.

(a) None is implicit

(b) only (A) is implicit

(c) only (B) is implicit

(d) only (D) is implicit

(e) only (B) and (C) is implicit

**Directions(6 - 8):** In each questions below is given a statement followed by three courses of action numbered (A), (B) and (C).A course of action is a step or administrative decision to be taken for improvement ,follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

**6. Statement:** A heavy unseasonal downpour during the last two days has paralyzed the normal life in the state in which five persons were killed but this has provided a huge relief to the problem of acute water crisis in the state.

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### Courses of action:

(A) The state Government should set up a committee to review the alarming situation.

(B) The state Government should immediately remove all the restrictions on use of potable water in all the major cities in the state.

(C) The state government should send relief supplies to all the affected areas in the state.

- (a) None (b) Only A  
(c) Only (B) and (C) (d) only (C)  
(e) All (A),(B),(C)

### 7. Statement:

A large private bank has decided to retrench one-third of its employees in view of the huge losses incurred by it during the past three quarters.

(A) The Govt should issue a notification to general public to immediately stop all transactions with the bank

(B) The Govt should direct the bank to refrain from retrenching its employees.

(C) The Govt should ask the central bank of the country to initiate an enquiry into the bank's activities and submits its report.

- (a) None (b) Only (B)  
(c) Only (B) (d) only (C)  
(e) Only (A) and (C)

### 8. Statement:

Many political activities have decided to stage demonstrations and block traffic movement in the city during peak hours to protest against the steep rise in prices of essential commodities.

### Courses of action:

(A) The Govt should immediately ban all forms of agitations in the country.

(B) The police authority of the city should deploy additional forces all over the city to help traffic movement in the city.

(C) The state administration should carry out preventive arrests of the known criminals staying in the city.

- (a) Only (A) (b) only (B)  
(c) Only (C) (d) Only (A)and(B)  
(e) None of these

**Directions (9 – 10):** In each of the following question, a statement is given followed by two conclusions numbered I and II.

### Give answer:

- (a) If only conclusion I follows.  
(b) If only conclusion II follows.  
(c) If either conclusion I or II follows.  
(d) If neither conclusion I nor II follows.  
(e) If both conclusions I and II follow

9. **Statement:** The Minister questioned the utility of the space research programme and suggested its replacement by other areas of felt national needs.

### Conclusions:

- I. Exploring the space does not contribute to critical national needs.  
II. Research should be oriented to national needs.

10. **Statement:** Population increase coupled with depleting resources is going to be the scenario of many developing countries in days to come.

### Conclusions:

- I. The population of developing countries will not continue to increase in future.  
II. It will be very difficult for the governments of developing countries to provide its people decent quality of life.

### Answer key:

1. b 2. b 3. b 4. a 5. c 6. a 7. d 8. b 9. e 10. b