



# Deepak Tirthyani

India's No. 1 Reasoning Teacher



## **SOLUTIONS** **Mock Test (31 to 35)**

- More than 7 Year Teaching Experience in SSC, Railway and Banking Exams.
- Currently Teaching in Unacademy, Wifistudy YouTube Channel.
- More than 500 Million+ Views on Youtube and Unacademy Videos
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- Best Faculty Award in 2019-20.
- Given Highest Number of selections in SSC, Railway and Bank Exam Pan India.
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Reasoning by Deepak sir

*Reasoning in My Blood*

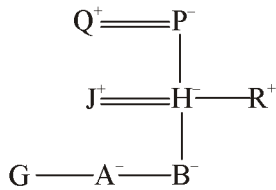
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31  
Mock Test

## SOLUTION



1. (C)



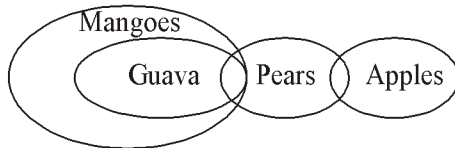
G's gender is not defined, so G is either R's nephew or niece.

2. (A)  $48 > 39$  &  $3 < 7 \%$   $5 = ?$ 

$$48 + 39 \div 3 - 7 \times 5$$

$$48 + 13 - 35 = 26$$

3. (B)



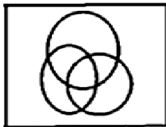
Only II follow.

4. (A) CAT -  $(3+1+20) \div 3 = 24 \div 3 = 8$ 

$$\text{DEAF} - (4+5+1+6) \div 4 = 16 \div 4 = 4$$

$$\text{Then, FED} - (6 + 5 + 4) \div 3 = 15 \div 3 = 5$$

5. (D)

6. (C)  $8 \times 2 + 4 = 20$ 

$$20 \times 2 + 8 = 48$$

$$48 \times 2 + 12 = 108$$

$$108 \times 2 + 16 = 232$$

$$232 \times 2 + 20 = 484$$

7. (A) Total students = 27

A's position from the bottom = 4<sup>th</sup>Position of A from the top =  $27 - 4 + 1 = 24$ Now, C's position from the top = 10<sup>th</sup>Position of B from the top =  $(24 + 10) \div 2 = 17^{\text{th}}$ 

8. (C) 40 A 48 C 16 D 13 B 25 = ?

$$= 40 + 48 \div 16 \times 13 - 25$$

$$= 40 + 3 \times 13 - 25$$

$$= 40 + 39 - 25 = 54$$

9. (B)  $18 \times .5 = 9$ 

$$9 \times 1 = 9$$

$$9 \times 1.5 = 13.5$$

$$13.5 \times 2 = 27$$

$$27 \times 2.5 = 67.5$$

10. (B) The numbers in each column follow the pattern 4, 3, 2.

In the first column =  $48 \div 4 = 12$ ,  $12 \div 3 = 4$ ,  $4 \div 2 = 2$ In the second column =  $72 \div 4 = 18$ ,  $18 \div 3 = 6$ ,  $6 \div 2 = 3$ In the third column =  $120 \div 4 = 30$ ,  $30 \div 3 = 10$ ,  $10 \div 2 = 5$ 

$$\begin{array}{c}
 \xrightarrow{17^{\text{th}}} \text{B} \quad \text{A} \xleftarrow{7^{\text{th}}} \\
 \hline
 42
 \end{array}$$

Middle person = Total - (Left + Right)

$$= 42 - (17 + 7)$$

$$= 42 - 24$$

$$= 18$$

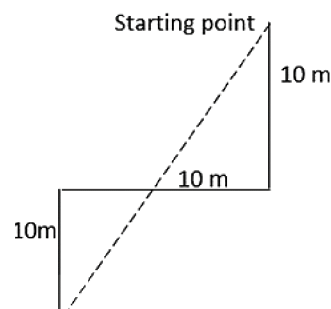
12. (A) C - 56, 68, 79, 87, 95

$$E - 57, 65, 78, 89, 96$$

$$S - 01, 14, 22, 30, 43$$

$$A - 04, 12, 20, 33, 41$$

13. (D)



14. (C) Ganga &gt; Amrit &gt; Meher &gt; Sameer &gt; Poet

15. (A) Ganga &gt; Amrit &gt; Meher &gt; Sameer &gt; Poet

16. (D) REST (T is not given the word)

17. (C) After observing the given question figure carefully, we get

@ is opposite to =

? is opposite to \$

# is opposite to %

Since, the symbols which are opposite, they cannot be adjacent to each other.

In option C '?' and '\$' are opposite to each other, so they cannot be adjacent to each other.

18. (B) The pattern is:

$$49 + 8 = 57$$

$$57 \div 3 = 19$$

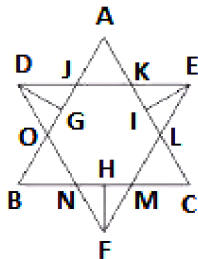
$$19 + 8 = 27$$

$$27 \div 3 = 9$$

$$9 + 8 = 17$$

19. (D) Except for the fourth option, the sum of the marks in all the other options is 17.

20. (B)



The triangles that we get from the given figure are,

ABC, DEF, AJK, KEL, CLM, FMN, BNO, DOJ, ODG, DGJ, IKE, IEL, HMF and HFN.

Thus, we get 14 triangles.

21. (A) The series will be,

$$C \xrightarrow{+5} H \xrightarrow{+5} M \xrightarrow{+5} R$$

$$N \xrightarrow{+4} R \xrightarrow{+4} V \xrightarrow{+4} Z$$

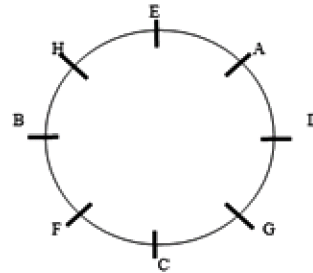
$$U \xrightarrow{+4} Y \xrightarrow{+4} C \xrightarrow{+4} G$$

Thus, CNY, HRY, MVC, RZG

22. (D) As stated this year a heavy rainfall is expected and from these heavy floods can also be anticipated and due to this a huge damage to the

property and people is natural therefore the relief program and awareness campaign is the correct course of action.

23. (C) According to the given information;



Clearly, C is facing E.

Hence, option C is the correct answer.

24. (D) 2, 1, 3, 4

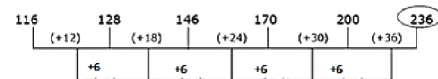
25. (A) Pattern is:

$$7^2 + 8^2 = 113$$

$$11^2 + 12^2 = 265$$

$$\text{So, } 14^2 + 9^2 = 277$$

26. (D) The pattern is:



So, the missing number is 236.

27. (A) As it is mentioned in statement I that 'we are going back again to our ancestors and finding out the importance of Yoga Pranayam' implies that ancient science is the treasure of many cures and natural remedies of various diseases otherwise we won't have gone back. Also as people in the west have opted it shows that ancient science is helpful. But as people are opting for ancient science and yoga more and more now a days, we cannot say that modern technology has overshadowed these ancient sources. Thus only conclusion I follows.

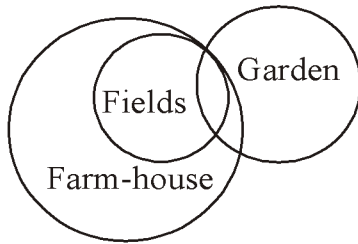
28. (B) The pattern is:

$$R (+2) = T, T (+2) = V, V (+) = X$$

$$C (+2) = E, E (+2) = G, G (+2) = I$$

So, G is the missing letter.

29. (A)



Conclusions:

IV. Some farm-houses are fields – True, it is a definite case.

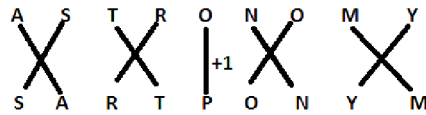
V. Some gardens are fields – True, it is a definite case.

nite case.

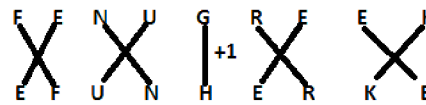
VI. Some farm-houses are gardens – True, it is a definite case.

So, all the conclusions I, II, and III follows.

30. (D) The pattern is:



Similarly



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Mock Test

## SOLUTION



1. (B) P (+5) = U, U (+5) = Z, Z (+5) = E, E (+5) = J  
S (+5) = X, X (+5) = C, C (+5) = H, H (+5) = M  
V (+5) = A, A (+5) = F, F (+5) = K, K (+5) = P

2. (A) Pound and yen are currencies of different countries. Similarly, polo and hockey are names of different games.

3. (A) A C F J : E G J N :: I K N R : M O R V

4. (A)  $2 + 4 + 3 = 9$

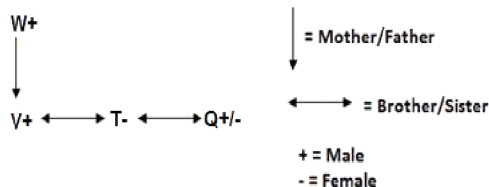
$$8 + 1 + 9 = 18 = 1 + 8 = 9$$

$$1 + 6 + 3 = 10 = 1 + 0 = 1$$

$$4 + 8 + 7 = 19 = 1 + 9 = 10 = 1 + 0 = 1$$

5. (D) Ranchi is the capital of Jharkhand and rest are the districts of Rajasthan.

6. (D) In this question, we show that 'P@Q' means P is the father of Q, 'P\*Q' means P is the mother of Q, 'P&Q' means P is the brother of Q and 'P%Q' means P is the sister of Q. the expression W @ V & T % Q -



W is the father of Q.

7. (A) COMPARE is written as 3479186,

C O M P A R E  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
3 4 7 9 1 8 6

CONNECT is written as 3455632,

C O N N E C T  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
3 4 5 5 6 3 2

So in COMPACT is written as -

C O M P A C T  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
3 4 7 9 1 3 2

COMPACT is written as 3479132.

8. (D) The parts of the computer are CPU, RAM, mouse etc.

RAM is inside the CPU.

The mouse is outside the CPU.



9. (D) From the information given in the question,

Rohit<sup>+</sup> = Priya<sup>-</sup>



Riya<sup>-</sup> — Richa<sup>-</sup> — Wahid<sup>+</sup> = Neha<sup>-</sup>

Priya is the mother in law of Neha.

So, the correct answer is option D.

10. (A) PENCIL => QGQGNR

P->Q (next letter)

E->G (one alphabet omitted)

N->Q (two alphabets omitted)

C->G (three alphabets omitted)

I->N (four alphabets omitted)

L->R (five alphabets omitted)

like that,

CIRCUIT will be written as DKUGZOA.

11. (D) Given:  $30 \div 2 - 10 \times 6 + 5 = 35$

After converting the signs (+ and  $\times$ ) we get,

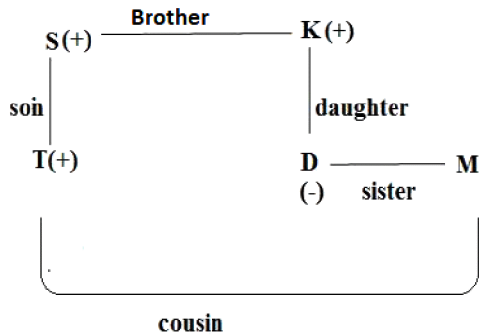
$$30 \div 2 - 10 + 6 \times 5$$

$$15 - 10 + 30$$

$$45 - 10$$

$$35$$

12. (C) It is given that: A + B means A is father of B.  
A - B means A is sister of B. A \* B means A is brother of B. A % B means A is the son of B.  
Therefore, the expression T % S \* K + D - M can be represented as in the figure below:



From the above figure, it is clear that T is the cousin brother of M.

So, the correct answer is option C.

13. (D) If both course of action I & II follow.

14. (A)  $F + 3 \rightarrow I + 4 \rightarrow M$

$M + 3 \rightarrow P + 4 \rightarrow T$

Similarly,

$T + 3 \rightarrow W.$

15. (D) Neither I nor II follows.

16. (C) As,

$96 \div 3 = 32,$

Similarly,

$48 \div 3 = 16$

17. (A)  $567 \div 3 = 189$

$189 \div 3 = 63$

$63 \div 3 = 21$

$21 \div 3 = 7$

18. (A) Logic :

Row 1:

$25 \times 41 - 500 = 1025 - 500 = 525$

Row 2:

$19 \times 38 - 500 = 722 - 500 = 222$

Row 3:

$29 \times 47 - 500 = 1363 - 500 = 863$

19. (D) Given series follows the pattern given below:

First letter - R+2  $\rightarrow$  T, T+4  $\rightarrow$  X, X+6  $\rightarrow$  D,  
D+8  $\rightarrow$  L

Second letter - N+3  $\rightarrow$  Q, Q+6  $\rightarrow$  W, W+9  $\rightarrow$  F,  
F+12  $\rightarrow$  R

20. (C) Logic :

Column 1:

$13 \times 7 = 91, 9 + 1 = 10$

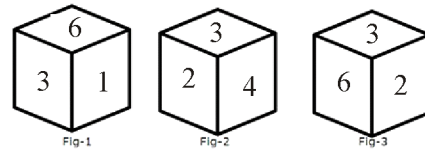
Column 2:

$19 \times 4 = 76, 7 + 6 = 13$

Column 3:

$23 \times 9 = 207, 2 + 0 + 7 = 9$

21. (B)



3 is common in fig(1) and fig(2).

Therefore, the sides 6,1,4, 2 will be consecutive side face of the side 3.

So, the side 3 will be opposite to the side 5.

22. (D) Refer to the table below :

Symbol	$\times$	-	+	$\div$
Meaning	+	$\div$	-	$\times$

$250 \div 2 - 5 \times 25 = ?$

After changing the symbols,

$250 \times 2 \div 5 + 25$

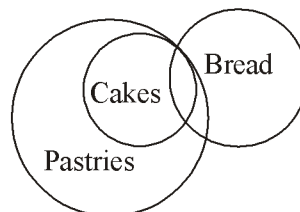
Applying BODMAS we get,

$= 250 \times 2 \div 5 + 25$

$= 500 \div 5 + 25$

$= 100 + 25 = 125$

23. (B)

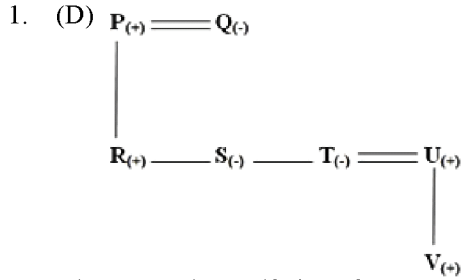


Only II follow.

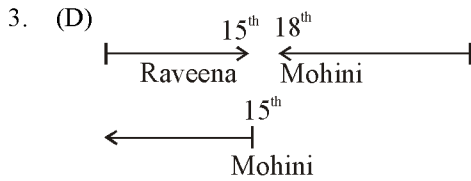
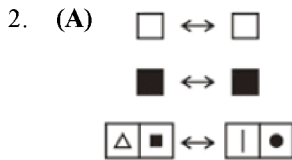


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Mock Test

SOLUTION

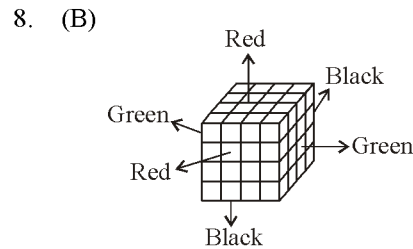
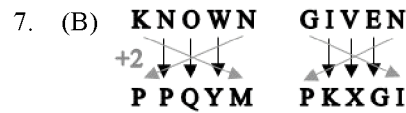
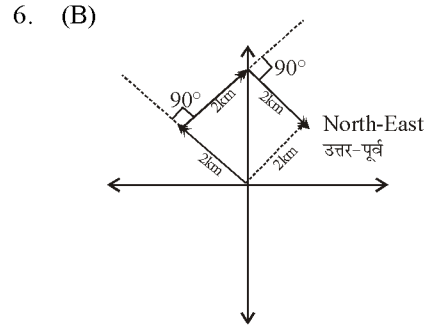
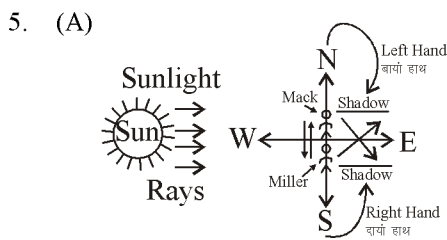


P is maternal grandfather of V.



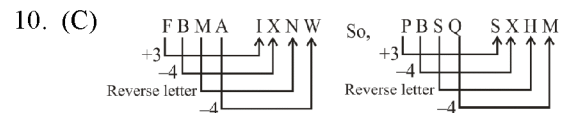
(after changed position)  
 Total girls = Left + Right - 1  
 18 + 15.  
 Data insufficient.

4. (C) Chiku, Chiku, Guava, Guava, Mango, Mango,  
 Chiku, Sitapal = 4  
 It series repeat three times  
 Remaining position 6.  
 6 position is mango plat  
 Last plant is mango = 30<sup>th</sup>



Atlest one face coloured with Red colour  
 =  $16 \times 2 - \text{common cube} = 16 \times 2 - 4 = 28$

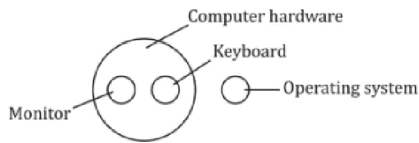
9. (C)  $E = 5, 5 \times 2 = J$   
 $8 \times 3 = 24$   
 $I \times 2 = 9 \times 2 = 18(R)$   
**C3D = F9H**



11. (B) Given:  
 8765 : 11 :: 9252 : 73 :: 4397  
 $8-7 \quad 6-4 \quad 9-2 \quad 5-2$   
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$   
 1 1 7 3  
 Similarly,  $4-3=1$  and  $9-7=2$



12. (A)



13. (B)  $R < V = F < N > C > K = Y < M = W$

I.  $C < R$  (False)

II.  $W > K$  (True)

14. (A) Here the logic taken according to the columns

$$(7 \times 4) + (2 \times 9) + (3 \times 2) = 28 + 18 + 6 = 52.$$

Similarly,

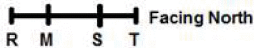
$$(5 \times 8) + (6 \times 2) + (1 \times 7) = 40 + 12 + 7 = 59.$$

15. (A) The full range will be:

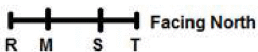
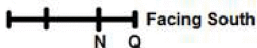
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16. (D) In this question, we show that –

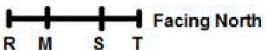
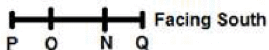
M is between R and S and is facing North, T is to the immediate right of S.



T is opposite to Q who is to the immediate left of N.



O is between P and N.

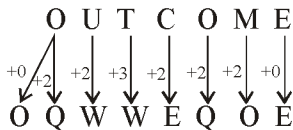


pair NS has the person sitting opposite each other.

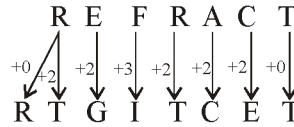
So correct answer is option D.

17. (A) 95, 00, 33, 79

18. (A)



Similarly



19. (D) From the given options,

$$7856 - 7 \times 8 - 56$$

$$8324 - 8 \times 3 - 24$$

$$9545 - 9 \times 5 - 45$$

$$7647 - 7 \times 6 - 42 \text{ which is not equal to } 47$$

20. (A)

Year	Odd Days विषम दिन
Ordinary Year → 1 Jan. 2018	→ 1
1 Jan. 2019	→ 1
1 Jan. 2020	→ 2
1 Jan. 2021	→ 1
1 Jan. 2022	→ 1
1 Jan. 2023	→ 1
Leap Year → 1 Jan. 2024	→ 2

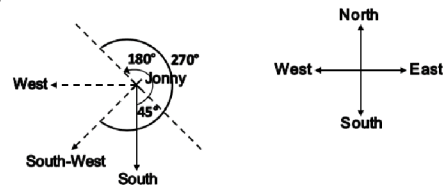
} 7 odd days

\* When we move ordinary year to leap year 1 Jan. to 28 Feb. calendar will be repeat.

21. (C) The hour hand of a clock makes an angle of  $1/2^\circ$  in 1 minute.

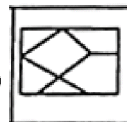
$$\text{So in 40 minutes} = 1/2 \times 40 = 20^\circ$$

22. (D)



So he is facing now in south-west direction.

23. (C) In mirror image, left side goes on right side and right side goes on left side.



24. (C)

The question figure is hidden in option (C) figure.



25. (D)

When unfold the paper the figure is shown as.

26. (C)  $142 : 29 :: 156 : 92$

$$1^2 + 4^2 + 2^2 = 21$$

$$1 \times 4 \times 2 = 8$$

$$\text{Total} = 29$$

Same as

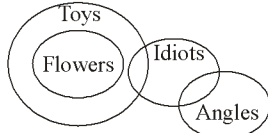
$$12 + 52 + 62 = 62$$

$$1 \times 5 \times 6 = 30$$

$$\text{Total} = 92$$

27. (B) Friend is honest  $\rightarrow$  hu(lip) ma  
 honest are man  $\rightarrow$  (lip) fi kit  
 man never clever  $\rightarrow$  fi ti gi

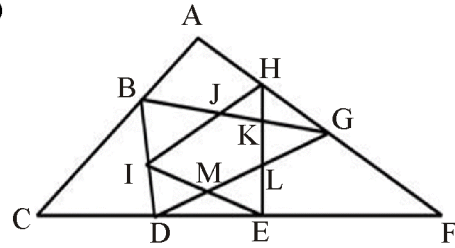
28. (D)



None conclusion follows

29. (B) Conclusion I is not appropriate as nothing is mentioned in the statement about Company X not hiring people from any other profession. Conclusion II is correct because Company X need Software Engineers.

30. (A)



$\triangle IDM, \triangle MDE, \triangle LME, \triangle JHK, \triangle HKG, \triangle GK L,$   
 $\triangle IDE, \triangle DLE, \triangle JHG, \triangle LHG, \triangle BIJ, \triangle BCD, \triangle HEF,$   
 $\triangle DGF, \triangle BAG, \triangle HIE, \triangle BGD, \triangle ACF = 18$

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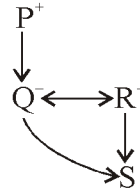
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Moct Test

## SOLUTION



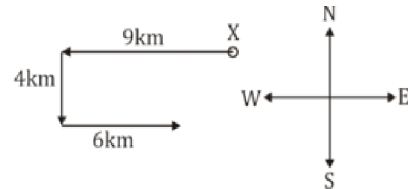
1. (D)  $15 = 2*8 - 1$   
 $59 = 15*4 - 1$   
 $117 = 59*2 - 1$   
 $116 = 117*1 - 1$   
 $? = 116 * 0.5 - 1$   
 Therefore next term is  $116 * 0.5 - 1 = 57$
2. (A) It is a double series,  
 $26, 138, 29, 142, 34, 148, ?$   
 $29 - 26 = 3$   
 $34 - 29 = 5$   
 $? - 34 = 7$   
 and the second one  
 $26, 138, 29, 142, 34, 148, ?$   
 $142 - 138 = 4$   
 $148 - 142 = 6$   
 Therefore  $? = 34 + 7 = 41$
3. (A) + 4 series
4. (C)  $5 + 4 + 0 = 9$   
 $9 + 8 + 1 = 18 = 1 + 8 = 9$   
 $1 + 4 + 5 = 10 = 1 + 0 = 1$   
 $7 + 8 + 4 = 19 = 1 + 9 = 10 = 1 + 0 = 1$
5. (A) From the first statement :  
 $A > B > C$   
 From the second statement :  
 $A > C > D$   
 From the third statement :  
 $C > E > F$   
 From all the statements the exact arrangement cannot be determined but it is clear that A got the highest marks.
6. (D) Tiger woods is a golf player and rest are famous cricketers.
7. (A) +3 Series except option (a)
8. (A) 1. Galaxy  $\rightarrow$  2. Gallon  $\rightarrow$  3. Gazars  $\rightarrow$   
 4. Grazed  $\rightarrow$  5. Grumpy

9. (D)



From the given data, we cannot identify the gender of 'S'. So, we need more data.

10. (B)



He is in south-west direction from x

11. (C) Multiplying by 2.5

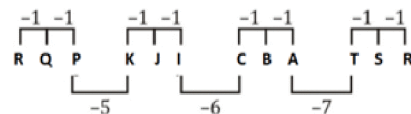
12. (C) Aktar – 5 letters

Farhan – 6 letters

Rastogi – 7 letters

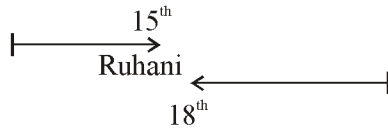
Silencer – 8 letters

13. (A)

14. (A)  $(7 + 2) \times 4 = 36$  $(10 + 5) \times 2 = 30$  $(20 + 5) \times 6 = 150$ 15. (C)  $14 : 112 :: 18 : 180$ 
 $\frac{14}{2} = 7, 7 + 1 = 8 \times 14 = 112$ 

 Same  $\frac{18}{2} = 9, 9 + 1 = 10 \times 18 = 180$

16. (B)



4 girls between Malaika and Ruhani  
minimum numbers of total girls

$$\begin{aligned} &= L + R - 2 - (\text{middle person}) \\ &= 15 + 18 - 2 - 4 \\ &= 33 - 6 \\ &= 27 \end{aligned}$$

17. (C) Let age of Rohit = x

According to questions,

Age of Aman = x + 3

Age of Suresh = x + 6

Now, Rohit and Danish are twins.

So, age of Danish = x

Suresh is 6 years older than Danish.

18. (D) If both I and II follow.

19. (C) Row I : 3 + 4 + 1 + 7 = 15

Row II : 1 + 8 + 9 = 18

Row III : 5 + 4 + 2 + 7 = 18

20. (D) Given series : 28, 33, 31, 36, 34, 29

Logic: (+5, -2, +5, -2..so on)

So,

28(+5) = 33

33(-2) = 31

31(+5) = 36

36(-2) = 34

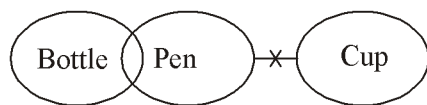
34(+5) = 39 (but 29 is given)

So, 29 is wrong.

21. (A) Logic : here the elements \* and + moving one place clockwise in each step.

After carefully observing the figures given in the question, it is very clear that the answer figure (A) will be the next figure.

22. (D)



23. (D) Here the correct repeating pattern is : nbkl

So the completed series will be : bpnk/bpnk/bpnk

24. (C) As it is punched in a book-folding manner and then again it gets punched. So, when we open it up there will be figure as shown in option (B).

25. (D) As,

The pattern is as follows:

$(12 \times 2)^2 = (24)^2 = 576$

Similarly,

$? = (8 \times 2)^2 = (16)^2 = 256$

So ? = 256

26. (D) 12 : 576 :: 8 : ?

$12 \times 2 = 24$

$(24)^2 = 576$

Same as

$8 \times 2 = 16$

$(16)^2 = 256$

27. (C)

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M
Position value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabet	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Position value	26	25	24	23	22	21	20	19	18	17	16	15	14

C + X = 27

U + F = 27

R + I = 27

I + R = 27

N + M = 27

G + T = 27

Therefore, L + O = 27, A + Z = 27, T + G = 27,

E + V = 27, L + O = 27 and Y + B = 27

28. (B)

Letter	a	b	c	d
Meaning	÷	-	×	+

After putting the symbols,

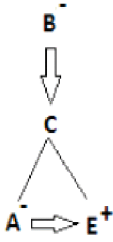
$18 \div 2 + 10 - 5 \times 3$  (applying BODMAS)

$\rightarrow 9 + 10 - 15$

$\rightarrow 19 - 15$

$\rightarrow 4$

29. (A)



From the given information given in the question, it is clear that B is the grandmother of A.

30. (B) Row 1:  $5^3 - 3^2 + 1 = 125 - 9 + 1 = 125 - 8 = 117$   
 Row 2:  $4^3 - 2^2 + 1 = 64 - 4 + 1 = 64 - 3 = 61$   
 Row 3:  $9^3 - 7^2 + 1 = 729 - 49 + 1 = 729 - 48 = 681$

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35  
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## SOLUTION



1. (A) All potatoes are vegetables but plums are entirely different from them.



2. (B)

T — 8  
R — 3  
E — 4  
K — 6

And,

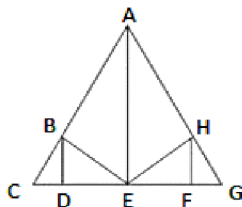
F — 2  
A — 0  
M — 9  
I — 1  
L — 7  
Y — 5

Using the numbers from the above letters as code we get,

R — 3  
E — 4  
A — 0  
L — 7  
I — 1  
T — 8  
Y — 5

So, REALITY = 3407185.

3. (A)

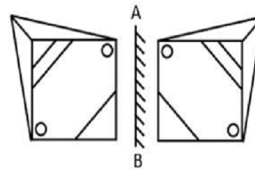


Triangles are:

ACE, ABE, ACG, AEH, AGE, BCD, BDE, HFG, HEF, BCE, HEG ? 11 Triangles.

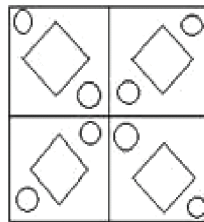
4. (C) In a plane mirror, a mirror image is a reflected reproduction of an object that appears

nearly identical, but is inverted in a direction perpendicular to the mirror surface. is formed as a result.



Hence, option C is the correct mirror image of the given figure.

5. (B) From the given figure we can say that, Single dot and 5 dots will be on opposite faces, X and ? will be on opposite faces and Double circle and # will be on opposite faces. Since, opposite faces cannot be on adjacent sides. Therefore, the cube at option B cannot be formed by folding the given figure.
6. (A) Looking carefully at the given four options, it is clear that the option figure (A) completes the given format in the question. The complete figure will be as follows.

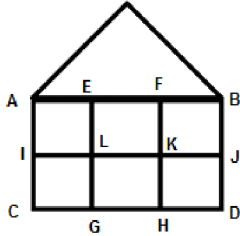


7. (B) If figure B rotated by 180 degree clockwise then it perfectly fits the figure pattern.



Thus figure at option B completes the pattern in the question figure.

8. (A) If only course of action I follows.  
 9. (B) In this question, we show that the figure is given below –

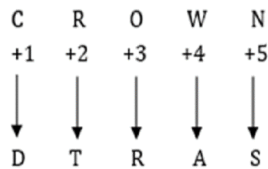


We know that every square is rectangle but every rectangle is not a square.

After observation the rectangles are –  
 ABDC, AELI, AFKI, ABJI, AEGC, AFHC, EFKL,  
 EBJL, EBDG, EFHG, FBKJ, FBDH, DJKH,  
 DJLG, DJIC, HKLG, HKIC and CGLI.

So total number of rectangles are 18

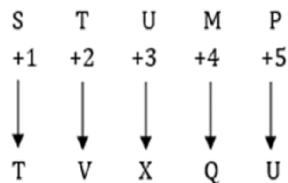
10. (D) Just as,



And,

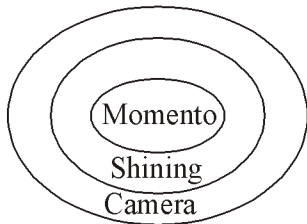


Similarly,



Similarly, STUMP is coded as TVXQU.

11. (C)



12. (B) logic: square of the second digit = first digit  
 So, 532 = 2809

Similarly,  
 322 = 1024

13. (D) Logic: (place value x 2)

So, P = 16 x 2 = 32

E = 5 x 2 = 10

N = 14 x 2 = 28

Thus, PEN = 321028

Similarly,

T = 20 x 2 = 40

U = 21 x 2 = 42

B = 2 x 2 = 4

Thus, TUB = 40424.

14. (C) Logic:

$5^2 + 4^2 = 25 + 16 = 41$

$9^2 + 11^2 = 81 + 121 = 202$

$15^2 + 6^2 = 225 + 36 = 261$

15. (A) After carefully observing the figures given in the question, it is very clear that the answer figure(A) will be the next figure.

Logic: the arrow is moving up-down and changing its direction, while in the figure one side is added to obtain the next figure.

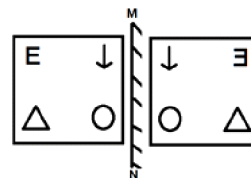


16. (B) 1 and 5 are adjacent sides of 6.

So 3 is opposite to 6

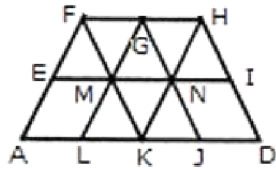
Hence, option B is the correct answer.

17. (D) The correct mirror image respect to vertical mirror on right of the given picture is the figure of option D.



18. (A) (logic :  $12 \times 12/2 = 72$ ),  
 $(22 \times 22/2 = 242)$ ,  
 $(18 \times 18/2 = 162)$

19. (A)



12 triangles in all; EFM, FMG, GMN, GHN, HNI, LMK, MNK, KNJ, FAK, HKD, GLJ, and FHK.

20. (D) The paper is unfolded in two steps-  
Step 1-



Step 2-



21. (D) Pattern Follows here:

$$O - 3 = L$$

$$B + 1 = C$$

$$L - 3 = I$$

$$C + 1 = D$$

$$I - 3 = F$$

$$D + 1 = E$$

22. (A) NEATLY (E is not given in the word)

23. (A) Pattern follows here:

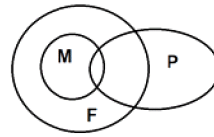
$$55 + 3 = 58$$

$$58 + 6 = 64$$

$$64 + 9 = 73$$

$$73 + 12 = 85$$

24. (D) All mothers are females and some females who are mothers can be Police officer.



Hence, option D is the correct answer.

25. (C) Logic:

$$87 + 1 = 88$$

$$88 + 2 = 90$$

$$90 + 3 = 93$$

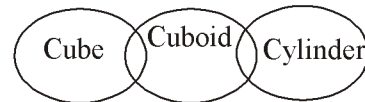
$$93 + 4 = 97$$

26. (A) Father of Priya's father means grandfather of Priya. Sudha is the daughter of the wife of Priya's grandfather's only son, i.e., father of Priya.

Therefore, Sudha is the sister of Priya.

Hence, option A is correct answer.

27. (E)



28. (D) Symbols + ÷ × -

Codes ÷ × - +

$$529 \div 23 - 10 + 5 \times 4 = ?$$

According to BODMAS rule

$$? = 23 - 10 + 5 \times 4$$

$$? = 23 - 10 + 20$$

$$? = 43 - 10$$

$$? = 33$$

29. (C)  $25 \times 2.2 = 55$  &  $55 \times 2.4 = 132$

Similarly,

$$35 \times 2.2 = 77 \text{ \& } 77 \times 2.4 = 184.8$$

30. (B) By checking Option B,

$$7 + 3 \div 5 - 35 \times 5 = 15$$

After changing the symbols,

$$7 + 3 \times 5 - 35 \div 5 = 15$$

$$7 + 15 - 7 = 15$$

$$22 - 7 = 15$$

$$15 = 15$$

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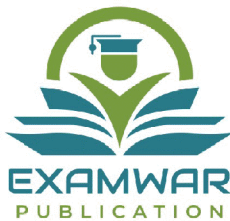
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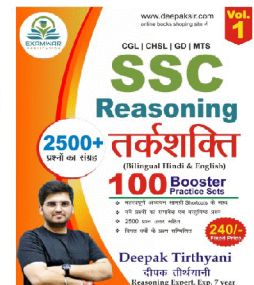
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