

# 10 Aug 2024 (Shift 2)

**Q1** Six houses, A, B, C, X, Y and Z, are located in the same colony. A is 60 m to the south of Z. Y is 170 m to the west of Z. X is 110 m to the north of Z. C is 140 m to the south of A. B is 130 m to the east of A. In which direction is House X with reference to House A?

- (A) North (B) South  
(C) East (D) West

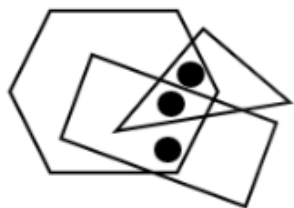
**Q2** A person face east he turns 135 degree anticlockwise than 90 degree clockwise in which direction is he facing now?




- (A) South-East (B) North-West  
(C) North-East (D) South-West

**Q3** In a certain code language, if 'PDU' is written as '40' and 'HXO' is written as '34', how will 'BMW' be written in the same code language?

- (A) 28 (B) 36  
(C) 43 (D) 34

**Q4** Identify the figure which satisfies the same condition of placement of dots as in given figure.



- (A)   
(B)   
(C) 

(D)



**Q5** In a row all of them are facing south Sham is 16<sup>th</sup> from the left end and Ram is 16<sup>th</sup> from the right end. Karan is 5<sup>th</sup> to right of Ram and 5<sup>th</sup> to left of Sham. Find total number of persons ?

- (A) 20 (B) 19  
(C) 22 (D) 21

**Q6** Among six friends C, V, Z, N, X and B, each has a different height. Z is taller than only four other friends. N is taller than only one friend. X is taller than B but shorter than V. V is not the tallest. Who is the tallest among all the friends?

- (A) B (B) C  
(C) N (D) X

**Q7** Pointing to the photograph of a girl, Raghav said, "She is my father's mother's daughter's only brother's daughter". How is Raghav's father related to that girl's mother?

- (A) Maternal uncle (B) Son  
(C) Husband (D) Father

**Q8** T is the mother of S's father. U is the wife of S. V is the only son of W who is married to T. X is the daughter of U. Y is the brother of X and married to Z. How is S related to Z ?

- (A) Husband's mother  
(B) Husband's father  
(C) Wife's mother  
(D) Wife's brother

**Q9** There are seven people in a family. A is married to C. A has two children, B and E. A is the mother of B and E. B is the wife of L. P is



the wife of E. L has one daughter G. E has one daughter K. How is C related to K ?

- (A) Son
- (B) Mother's father
- (C) Father's father
- (D) Brother

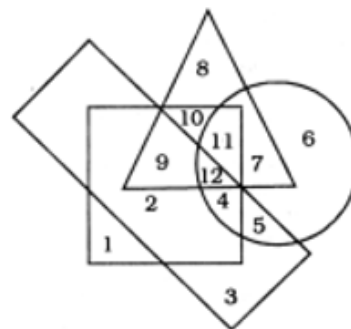
**Q10** Select the Venn diagram that best illustrates the relationship between the following classes.  
Moongdal, Red Gram, Pulse

- (A)
- (B)
- (C)
- (D)

**Q11** Identify the diagram that best represents the relationship among the given classes.  
Player, Cricketer, Female

- (A)
- (B)
- (C)
- (D)

**Q12** In the given figure, the circle stands for intelligence, square for hard - working, triangle for post-graduate and the rectangle for loyal employees. Study the figure and indicate the number which represents post-graduate employees who are hard-working and intelligent but not loyal?

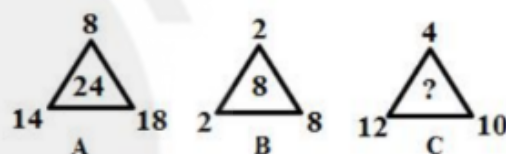


- (A) 12
- (B) 11
- (C) 10
- (D) 9

**Q13** Select the number that will replace the question mark (?) in the following series.  
5, 10, ?, 36, 69, 134

- (A) 20
- (B) 18
- (C) 19
- (D) 15

**Q14** Select the number that can replace the question mark (?) in the following figure series.



- (A) 6
- (B) 22
- (C) 2
- (D) 18

**Q15** Jumble the given jumbled words in a meaningful order and then select the odd one out.

- (A) NOTWEN
- (B) NIETSNIE
- (C) SGNIKWAH
- (D) ARAL

**Q16** Arrange these letters of each group to make a meaningful word and then find the odd one out.

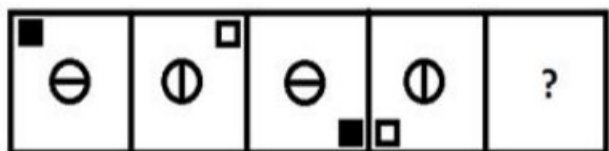
- (A) SIHYCSP
- (B) MTYHCSEIR
- (C) GOIOYLB
- (D) LHOCOS

**Q17** Arrange these letters of each group to make a meaningful word and then find the odd one out.

- (A) RYHABNI
- (B) GNEAR
- (C) SAMOHRB
- (D) AHASK

**Q18** Select the figure that will come next in the following figure series.



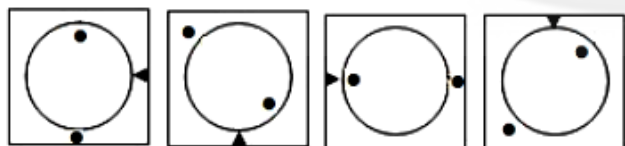


- (A)
- (B)
- (C)
- (D)

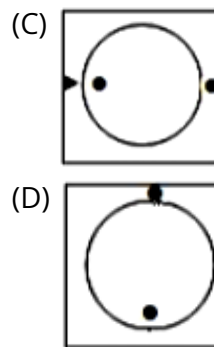
**Q19** Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.  
 $9 : 512 :: 10 : ?$

- (A) 728 (B) 343  
 (C) 1331 (D) 729

**Q20** Select the option figure that will come next in the following series.



- (A)
- (B)



**Q21** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- (A) DGLS (B) XAFM  
 (C) FINU (D) VYDJ

**Q22** In the following question, select the odd word from the given alternatives.

- (A) India (B) Philippines  
 (C) France (D) China

**Q23** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

7	3	11
4	9	23
11	7	?

- (A) 71 (B) 59  
 (C) 63 (D) 77

**Q24** In a certain code language, 'HUMP' is written as 'GTLO' and 'LIKE' is written as 'KHJD'. How will 'PLAY' be written in that language?

- (A) OJZX (B) QKZX  
 (C) OKZX (D) OKYX

**Q25** In the following question, select the figure which can be placed at the sign of question mark (?) from the given alternatives.

A M R	M Я	R T	Л K	?
J	A Л	M K	Я	
K T	Л K	A J	M A Л	



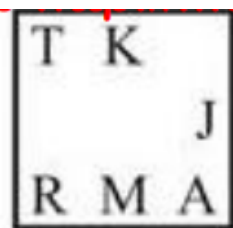
(A)



(B)



(C)



(D)



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# Answer Key

Q1 A  
Q2 C  
Q3 C  
Q4 A  
Q5 D  
Q6 B  
Q7 C  
Q8 B  
Q9 C  
Q10 B  
Q11 C  
Q12 B  
Q13 C

Q14 D  
Q15 D  
Q16 D  
Q17 B  
Q18 A  
Q19 D  
Q20 D  
Q21 D  
Q22 C  
Q23 B  
Q24 C  
Q25 C



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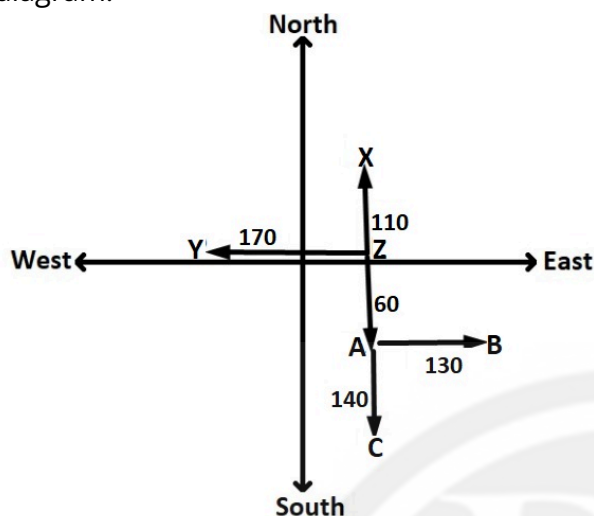
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# Hints & Solutions

Note: scan the QR code to watch video solution

## Q1 Text Solution:

According to the given information ,draw a diagram:



We can see house X is in 'North direction' with reference to house A.

Hence, **North** is the correct answer.

## Q2 Text Solution:

First turn is Anticlockwise 135 degree and second turn is 90 degree clockwise

so,  $-135 + 90 = -45$  degree

From east 45 degree anticlockwise direction is : North-East.

Hence, **"North-East "** is the correct answer .

## Q3 Text Solution:

Here in this question, Some words in a certain code language are given .We have to solve this code language and find out the code for the word 'BMW'.

**Given -**

'PDU' = ' 40 '

'HXO' = ' 34 '

'BMW' = ?

**Logic used is-**

Sum of the opposite place value of the letters are given.

The solutions of the given question is as follows:-

- 'PDU' = ' 40 '

Opposite place value of P = 11

Opposite place value of D = 23

Opposite place value of U= 6

$$P+D+U = 11+ 23+6 = 40$$

- 'HXO' = ' 34 '

Opposite place value of H = 19

Opposite place value of X = 3

Opposite place value of O = 12

$$H+X+O = 19+3+12 = 34$$

Similarly,

- 'BMW' = ?

Opposite place value of B = 25

Opposite place value of M = 14

Opposite place value of W= 4

$$B+M+W = 25+ 14+4 = 43$$

So it is clear that the code for the word BMW is 43.

**Hence, 43 is the correct answer.**

## Q4 Text Solution:

Explanation: Here, in the given figure, first dot lies in the region common to triangle and hexagon and second dot lies in rectangle and hexagon region and the third dot lies in the region common to rectangle, triangle and hexagon. So, the option which consists of these regions is the answers.

Hence the answer is



## Q5 Text Solution:

In a row all of them are facing south Sham is 16th from the left end

Right

Left

Sham ← 15 →



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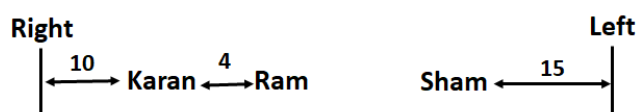
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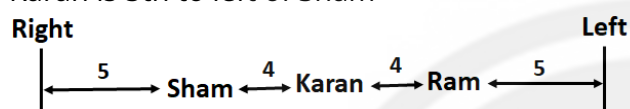
Ram is 16th from the right end



Karan is 5th to right of Ram



Karan is 5th to left of Sham



$$\text{Total} = 5 + 1 + 4 + 1 + 4 + 1 + 5 = 21$$

Hence, 21 is the correct answer.

#### Q6 Text Solution:

Six friends can be arranged in the following order:

(The order below is decreasing order of heights, from top to below, means, the one at top is the tallest and the one at bottom is the shortest)



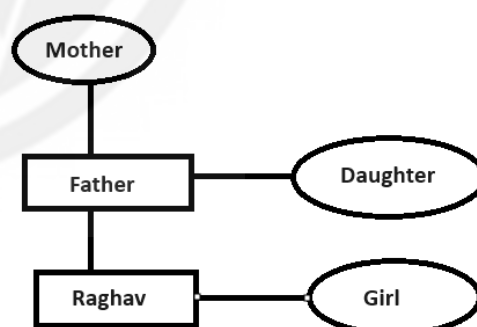
From the above figure, we can see that, C is the tallest.

Hence, C is the correct answer.

#### Q7 Text Solution:

In this question we have to make a family tree according to the question and we have to find how Raghav's father is related to that girl's mother.

The family diagram is:-



From the figure we can see that Raghav's Father is that girl's mother's Husband.

Hence, "**Husband**" is the correct answer.

#### Q8 Text Solution:

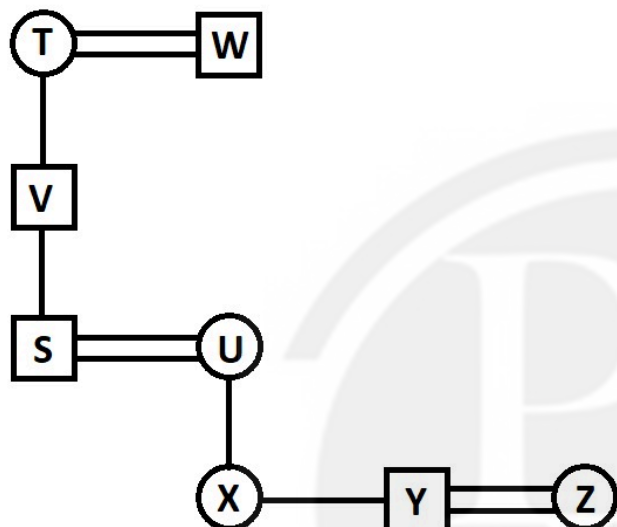
Family chart,





symbol	meaning
○	female
□	male
=	married
-	sibling
	difference of generation

According to the question family tree is :



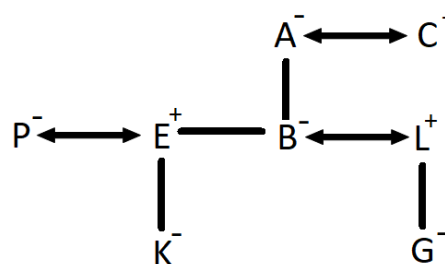
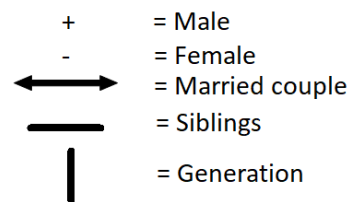
Clearly, we can see S is Husband's father of Z. Hence, **Husband's father** is the correct answer.

#### Q9 Text Solution:

Here, we have to find out how is C related to K according to given instructions.

According to the given instructions:-

- There are seven people in a family.
- A is married to C.
- A is the mother of only two children, B and E.
- B is the wife of L and P is the wife of E.
- L has one daughter G and E has one daughter K.



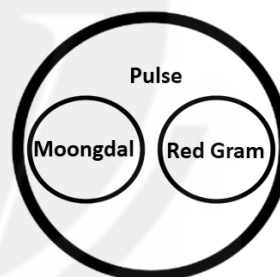
- So, C is the Grandfather of K.

Hence, **Father's father** is the correct answer.

#### Q10 Text Solution:

Moongdal and Red Gram both are Pulse.

Thus option B is the correct representation of Moongdal, Red Gram, Pulse.

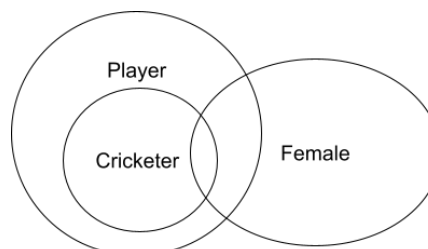


Hence, **Option B** is the correct answer.

#### Q11 Text Solution:

The Venn Diagram shows the best relationship between the Player, Cricketer, and Female.

- All cricketers are players.
- Some females can be players or cricketers.

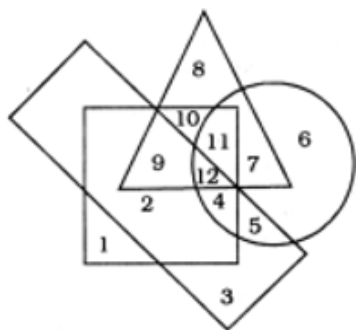




Hence, "Option C" is the correct answer.

**Q12 Text Solution:**

In the given figure,



We can see that:

- The required region should be common to circle, square and triangle but outside the rectangle.

According to the figure, number of such region is marked = 11

Hence, 11 is the right answer.

**Q13 Text Solution:**

We have been given numbers arranged in a series using some logic. We have to identify the logic and then have to find the number that will replace the question mark in the given series.

The pattern is as follow:-

$$\begin{array}{ccccccc}
 \times 2 - 0 & \times 2 - 1 & \times 2 - 2 & \times 2 - 3 & & & \\
 5 \longrightarrow 10 \longrightarrow 19 \longrightarrow 36 \longrightarrow 69 & & & & & & \\
 \times 2 - 4 & & & & & & \\
 \longrightarrow 134 & & & & & & 
 \end{array}$$

Hence, "19" is the correct answer.

**Q14 Text Solution:**

**The logic used : Addition of base numbers - top number = Center number**

As we can see that,

$$14 + 18 - 8$$

$$32 - 8 = 24$$

$$2 + 8 - 2$$

$$10 - 2 = 8$$

Similarly,

$$12 + 10 - 4$$

$$22 - 4 = 18$$

Hence, 18 is the correct answer.

**Q15 Text Solution:**

**Solution:-**

Jumbling the given option, we have

i- NORWEN-NEWTON

ii- NIETSNIE-EINSTEIN

iii-SGNIKWAH-HAWKINGS

iv- ARAL-LARA

From above, it is clear that top three options are the names of the Physicists, whereas the option iv is the name of a cricketer. So, the odd one is Option iv

Hence, the correct answer is **Option d** i.e., ARAL

**Q16 Text Solution:**

**Given Words Meaningful Words**

SIHYCSP PHYSICS

MTYHCSEIR CHEMISTRY

GOIOYLB BIOLOGY

LHOCOS SCHOOL

Except SCHOOL, all others are subject.

So, "SCHOOL" is the odd one out.

Hence, the correct answer is "SCHOOL".

**Q17 Text Solution:**

**Given Words Meaningful Words**

RYHABNI NIRBHAY

GNEAR RANGE

SAMOHRB BRAHMOS

AHASK AKASH

Except RANGE, all others are missiles name.

So, "RANGE" is the odd one out.

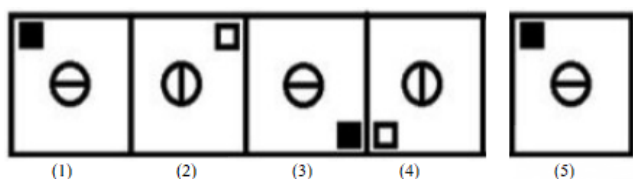
Hence, the correct answer is "RANGE".

**Q18 Text Solution:**

- Here we have to find out an alternative that will complete the given figure series.
- The pattern/ logic is as follows:**



- From Figure (1) to (2), the rectangle-shaped element is moving two steps in the clockwise direction and get blackened in an alternate step. While the circle-shaped element is rotating  $90^\circ$  to right in each step.
- Figure (5) follows the same pattern as shown below, thus completing the given figure series.



Hence, Option A is the correct answer.

#### Q19 Text Solution:

Here in this question, a number analogy is given, in which the first term is related to the second term in the same way as the third term is related to the fourth term. We have to find out the next term based on the same pattern.

**Given-**  $9 : 512 :: 10 : ?$

**Logic :**  $(\text{First number} - 1)^3 = \text{Second number}$

- $9 : 512$

Math input error

= Math input error

= 512

Similarly,

- $10 : ?$

Math input error

= Math input error

= 729

So there should be 729 at the place of a question mark.

Hence, 729 is the correct answer.

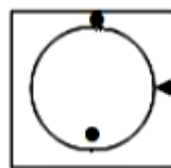
#### Q20 Text Solution:

Here, the pattern followed is:-

The arrow in the box is rotating  $90^\circ$  clockwise.

The dots are rotating  $135^\circ$  clockwise .

The figure that will come next is:-



Hence , **option D** is the correct answer.

#### Q21 Text Solution:

The pattern is as follows:

- $DGLS = D + 3 = G ; G + 5 = L ; L + 7 = S$
- $XAFM = X + 3 = A ; A + 5 = F ; F + 7 = M$
- $FINU = F + 3 = I ; I + 5 = N ; N + 7 = U$
- $VYDJ = V + 3 = Y ; Y + 5 = D ; D + 7 = K$

So, VYDJ is the odd one out.

Hence, VYDJ is the correct answer.

#### Q22 Text Solution:

- India- It is in Asia continent.
- Philippines- It is in Asia continent.
- France- It is in Europe continent.
- China- It is in Asia continent.

So, except France, all other countries are located in Asia continent.

Therefore, France is the odd one out.

Hence, France is the correct answer.

#### Q23 Text Solution:

In the given box ,

There are nine boxes with numbers . Numbers are filled with some logic . We have to identify the logic and find the missing number .

Logic : In horizontal rows ,

Let first number be 'a' , second number be 'b' and third number be 'c'

$$[a \times b - (a + b)] = c$$

- 7 , 3 , 11

$$[7 \times 3 - (7 + 3)] = 21 - 10 = 11$$

- 4 , 9 , 23



$$[4 \times 9 - (4 + 9)] = 36 - 13 = 23$$

- 11, 7, ?

$$[11 \times 7 - (11 + 7)] = 77 - 18 = 59$$

So, **the missing number is 59**.

Hence, "59" is the correct answer.

#### Q24 Text Solution:

The simple approach to solve this question is to find an alternative that follows the similar logic of word to letter coding.

**The logic used is:** Here the place value of each letter is decreasing by (-1).

'HUMP' is written as 'GTLO',

H	U	M	P
-1↓	-1↓	-1↓	-1↓
G	T	L	O

'LIKE' is written as 'KHJD',

L	I	K	E
-1↓	-1↓	-1↓	-1↓
K	H	J	D

Similarly, 'PLAY' will be written as:

P	L	A	Y
-1↓	-1↓	-1↓	-1↓
O	K	Z	X

Hence, the correct answer is OKZX.

#### Q25 Text Solution:

In this type of question, we have been given a series, in this series we have to find the missing figure of this series by finding the relation.

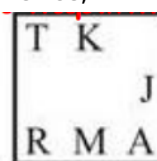
**Logic:**

- Letter 'A' is moving 1 step in an anticlockwise direction for each figure.
- Letter 'M' is moving 1 step in an anticlockwise direction for each figure.
- Letter 'R', is moving 1 step in anticlockwise direction also in each alternate step 'R' rotates horizontally
- Letter 'T', is moving 1 step in anticlockwise direction also in each alternate step 'T' rotates vertically.
- Letter 'K', is moving 1 step in anticlockwise direction also in each alternate step 'K' rotates horizontally
- Letter 'J', is moving 1 step in anticlockwise direction also in each alternate step 'J' rotates horizontally

So, the figure that completes the series will be:



Hence, "



" is the correct answer.



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