NATIONAL CYBER OLYMPIAD (NCO) NATIONAL SCIENCE OLYMPIAD (NSO) INTERNATIONAL MATHEMATICS OLYMPIAD (IMO)

## Logical Reasoning Sample Test Class-2

Total-Question:15
Time:15.0 Mins

| PATTERN \& MARKING SCHEME |  |
| :---: | :---: |
| Section | (1) Logical Reasoning Sample Test Class-2 |
| No. of Questions | 15 |
| Marks per Ques. | 1 |

## Logical Reasoning Sample Test Class-2

## Q 1.

Which of the following parts will complete the pattern in Figure (X)?


Figure ( X )


B




Q 2.

Find the odd one out.


Q 3.
$\qquad$ will replace the (?) in the given number pattern.

A 95
B 90
C 85
D 105

Q 4.

If $\nabla>$
is related to 12, then is related to $\qquad$ .

A 16
B 12
C 14
D 8

Q 5.
$\qquad$ is the lightest.


Q 6.

If the chair and the book are interchanged in their positions, then element $\qquad$ will be fourth to the left of the chair.

P $\quad$ Q

X

## Q 7.

There are $\qquad$ squares and $\qquad$ circles.


A 2,25
B 3,23
C 1,24
D 2,24

## Q 8.

Select the incorrect match.
Objects Number of equal groups

| 2 of 5 |  |
| :--- | :--- |
| C | 3 of 6 |
| D | 5 of 2 |

## Q 9.

If today is Monday, then day after tomorrow will be $\qquad$ 2.

A Saturday
B Friday
C Wednesday
D Thursday

## Q 10.



A Square and Circle
B Rectangle and Square
C Circle and Rectangle
D Triangle and Circle

Q 11.

How many $\triangle$ 's will balance the scale?


## Q 12.

Identify the missing shape which will complete the figure pattern.


Q 13.
If 'FLOWER' is written as 'REWOLF', then '82674' will be written as $\qquad$ .

A 48627
B 82674
C 46782
D 47628

## Q 14.

Which person is in the $6^{\text {th }}$ position from the ice-cream shop?


A Amit
B Mohit
C Raj
D Beena

## Q 15.

Find the odd one out.


D

## Answers

Logical Reasoning Sample Test Class-2
$\begin{array}{llllllllllllll}\text { 1.B } & \text { 2.C } & \text { 3.A } & \text { 4.A } & \text { 5.C } & \text { 6.B } & \text { 7.D } & \text { 8.C } & \text { 9.C } & \text { 10.B } & \text { 11.C } & \text { 12.A } & \text { 13.D } & \text { 14.C }\end{array}$ 15.C

## Solutions:

Carefully observe the image.
The ? box should be mirror-image of the box on the top-left. It is mirror-image of the box at the bottom-right too.
Now carefully study the options.
You will see that Option B is the right answer.


Figure ( X )

## S 2.

In Picture A, B and D, the butterflies have same number of circles in both the wings. But in Picture $C$, the left wing has 5 circles, but the right one has 6 circles. So, Option $C$ is the odd one out.

## S 3.

Let's write the number sequence given above in a line.

## 19385776 ? 114133152

We see there is a difference of 19 between any number and its preceding number.
$19+19=38+19=57+19=76+19=95+19=114+19=133+19=152$
So, Option A is the correct answer.

## S 4.

In the $1^{\text {st }}$ image, if we count the outer sides of the image, we get the number 12 .


So, in the $2^{\text {nd }}$ image, if we count the outer sides of the image, we get the number 16 . So, Option A is the correct answer.

## S 5.

Study the pictures carefully.
In Picture 1, Gift Box is heavier than Pencil Holder.
In Picture 2, Teddy Bear is heavier than Gift Box.
In Picture 4, Toy Bird is heavier than Teddy Bear.

That means Toy Bird (R) is the heaviest. And Pencil Holder (S) is the lightest. So, the right answer is Option C.

## S 6.

If we interchange Book with Chair, then Chair becomes V , and Book becomes T .
Now count four places to the left of V .


Toy Bird ( U ) is 1 .
Football ( S ) is 2.
Book (T) is 3 .
Table ( $R$ ) is 4.
So, Option B is the correct answer.

## S 7.

Study the image carefully. Now first count the squares. Then count the circles. There are 2 squares and 24 circles.
So, Option D is the right answer.

## S 8.

First count the Objects. Now add the numbers.
A. 16 Triangles ----- 4 of 4 means $4+4+4+4=16$. Similarly,
B. 10 Squares ----- $5+5=10$.
C. 9 Butterflies ----- $6+6+6=18$.
D. 10 Circles ----- $2+2+2+2+2=10$.

Option C does not match. So, Option C is the correct answer.

## S 9.

If today is Monday, then tomorrow will be Tuesday. That means day after tomorrow will be Wednesday.
So, Option C is the right answer.

## S 10.

A Rectangle is a plane figure with four straight sides and four right angles, where opposite sides are parallel and equal.
A Square is also a plain figure with four straight sides and four right angles, and opposite sides are parallel, but all sides of the square are equal.

| Rectangle |
| :---: |

So，in the given figure，the Rectangle is shaded with Red，and the Square is shaded with Blue．
So，Option B is the correct answer．

## S 11.

Let＇s observe the given picture carefully．
봉

$$
\not \approx=\theta \Theta \Theta \theta
$$


Let＇s check which option shows 8 balls：
A．${ }^{\circ} \mathrm{Co}$
B． 98950
C．बifors $=8$ balls
D．ब⿵⺆⿻二丨匕刀⿰㇒⿻二丨冂刂 $=9$ balls
So，Option C is the correct answer．

## S 12.

Let＇s observe the given picture carefully．


Check the last three shapes first．All are squares． $1^{\text {st }}$ has a white horizontal line in center． $2^{\text {nd }}$ has a white vertical line in center． $3^{\text {rd }}$ has a white vertical and a white horizontal line in center．

Now let＇s check the first two shapes．Both are circles． $1^{\text {st }}$ has a white horizontal line in center． $2^{\text {nd }}$ has a white vertical line in center．That means $3^{\text {rd }}$ shape will also be a round．It would have a white vertical and a white horizontal line in center．


So，Option A is the right answer．
'FLOWER' is written as 'REWOLF'.
See that all the letters in the first word have been in reverse order in the second word. That means to write 82674, we would have to reverse the order in the same way. So, 82574 will be written as 47628 .
That means Option D is the right answer.

## S 14.

Let's count $6^{\text {th }}$ position starting from the ice-cream shop.


Raj is at the $6^{\text {th }}$ position from the ice-cream shop. That means Option C is the right answer.

## S 15.

The shapes in Option A, Option B and Option D have four sides each. But the shape in Option $C$ has 5 sides.
So, Option C is the odd one out.

