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## MATHS

# BOOKS - HT Olympiad Previous Year <br> Paper 

## LOGICAL REASONING

## Verbal Reasoning

1. Which of the following will be the middle
digit of the lowest number formed after the
digits in each number is arranged in descending order ?
$\begin{array}{lllll}642 & 379 & 894 & 546 & 795\end{array}$
A. 1
B. 2
C. 4
D. 7

Answer: C

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2. Which of the following set of letters will complete the given letter series ? WEB TGD QHG ?
A. NIJ
B. NIK
C. NJK
D. PJK

Answer: C

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3. In a joint family, there are father, mother, 4 married sons and three unmarried daughters.

Out of the sons, two have 2 daughters each, and two have a son and a daughter each. How many female members are there in the family?
A. 15
B. 12
C. 14
D. 11
4. In a certain code language, PROBLEM is written as OQNAKDL. How is FLOWERS be written in that code language ?
A. EMNVFQR
B. ELMYFQS
C. EKMXFQR
D. EKNVDQR

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5. In each of the following questions, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.
6. Protein 2. Problem3. Proverb 4. Property 5.

Project
A. 1,2,3,4,5
B. 2,1,4,3,5
C. 2,5,4,1,3

## D. 3,2,5,2,1

## Answer: C

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6. If English alphabets are written in reverse order, then what will be seventh letter on the right of the $12^{\text {th }}$ letter from the left end?
A. F
B. G
C. H
D. S

## Answer: C

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7. Find the missing number, if same rule is followed either row-wise or column-wise.

A. 67
B. 64
C. 54
D. 59

Answer: B

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8. If husband is called wife, wife is called grandfather , grandfather is called grandmother, grandmother is called maternal grandmother, maternal grandmother is called maternal grandfather, maternal grandfather is called maternal uncle and maternal uncle is called maternal aunt, then what will the father of the mother be called?
A. Maternal grandfather
B. Maternal uncle
C. Maternal grandmother
D. Maternal aunt

## Answer: B

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9. In a class of 35 students, Kalika is placed $7^{t h}$
from the bottom whereas Anukur is placed $9^{t h}$
from the top. Seema is placed exactly in
between Kalika and Ankur. What is Kalika's position from Seema?
A. $9^{t h}$
B. $10^{t h}$
C. $11^{\text {th }}$
D. $13^{\text {th }}$

Answer: B
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10. $A, B, C, D, E, F$ and $G$ are sitting in a row facing

North.
(i) $F$ is to the immediate left of $G$.
(ii) E is $4^{\text {th }}$ to the right of G .
(iii) $C$ is the neighbour of $B$ and $D$
(iv) Person who is third to the left of $D$ is at one of the ends.

Who are the neighbours of $B$ ?
A. C and D
B. C and G
C. G and F

## D. C and E

## Answer: D

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11. Some letters are given which are numbered
$1,2,3,4,5$ and 6 . Find the combination of numbers from the options so that the letters are arranged accordingly to form a meaningful word.
$\begin{array}{llllll}R & X & E & T & P & E\end{array}$
$\begin{array}{llllll}1 & 2 & 3 & 4 & 5 & 6\end{array}$
A. 2,3,5,4,1,6
B. 2,3,6,5,1,4
C. 3,2,5,6,1,4
D. 3,1,5,4,2,6

## Answer: C

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12. Pointing to a lady, Avnika said, "She is the mother-in-law of the husband of my mother". How is that lady related to Avnika?
A. Grandmother
B. Aunt
C. Maternal grandmother
D. Sister

## Answer: C

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13. Which of the following elements satisfies
the Venn diagram given below?
A. Judge, Thief, Criminal
B. Father, Mother, Parents
C. Teacher, College, Student
D. Polygons, Rectangles, Squares

Answer: A
14. If 'P' denotes'-', 'Q' denotes ' $\times$ ' , 'R'
denotes ' $\div$ ' and ' $S$ ' denotes ' + ', then find the value of 125 Q 32 R 8 P 100 S 160.
A. 500
B. 600
C. 480
D. 560

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15. Rohit walked 25 m towards South. Then he turned to his left and walked 20 m . He then turned to his left and walked 25 m . He again turned to his right and walked 15 m . At what distance is he from his starting point and in which direction?
A. 35 metres, East
B. 35 metres, North
C. 40 metres, East

D. 60 metres, East

Answer: A

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## Non Verbal Reasoning

1. Select a figure from the options which will continue the same series as established by the

Problem Figures.

## Problem Figures


(A)

(C)

(B) $\square \square$
(D)


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2. A square transparent sheet, with a pattern and a dotted line on it is shown here. Select a
figure from the options as to how the pattern
would appear when the transparent sheet is

## folded along the dotted line.


C.


## Answer: A

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## 3. Group the given figures into three classes

using each figure only once.

A. 1,5,6 , 2,3,4 , 7,8,9
B. 1,4,7 , 2,5,8 , 3,6,9
C. 1,2,3 , 4,5,8 , 6,7,9
D. 1,3,5 , 2,4,8 , 6,7,9

## Answer: A

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4. There is a certain relationship between
figures (1) and (2) . Establish the similar relationship between figures (3) and (4) by selecting a suitable figure from the options
which will replace the '?' in the figure (4) .

(1)
(2)

(3)
(4)

(B)

(C)

(D)


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5. Two positions of a dice are shown . Which number will be on the face opposite to the
face having numbre 6 ?

A. 1
B. 3
C. 6
D. 5

Answer: A

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6. Count the number of cubes in the given
figure.

A. 56
B. 55
C. 54
D. 52

## Answer: A

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## 7. Which of the following options will complete

the pattern in Fig. (X) ?


Fig. (X)
(A)

(B)

(C)

(D)


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## 8. Select the correct water image of the given

Fig. (X)

Fig. (X)
A.

B.


# C. 



## Answer: C

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9. Find the minimum number of straight lines required to make the given figure.

A. 12
B. 17
C. 15
D. 24

Answer: B

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10. A sheet of paper is folded in a particular
manner and a punch is made as shown. Select
a figure amongst the options that would
closely resembles the unfloded form of given
sheet.




Answer: A
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11. Select a figure from the options which is exactly embedded in the given figure as one of
its parts.

A.

B.

C.

Answer: D

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12. Which of the following figures will complete the given figure matrix ?

(A)

(B)

(C)

(D)


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13. Select a figure from the options which
satisfies the same condition of placement of
the dots as in Fig. (X).


## C.


D.


## Answer: C

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14. Select the correct mirror image of the given figure.



Answer: A

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15. A set of three figures $X, Y$ and $Z$ showing a sequence of folding of a piece of paper. Fig. Z shows the manner in which the folded paper
has been cut. Select a figure from the options
which would most closely resembles the

## unfolded form of Fig. Z.


c.
D.

Answer: D

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