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ICO INTERNATIONAL CYBER OLYMPIAD	NISO NATIONAL INTERACTIVE SCIENCE OLYMPIAD	NIMO NATIONAL INTERACTIVE MATH OLYMPIAD	NBTO NATIONAL BIOTECHNOLOGY OLYMPIAD	IEO INTERNATIONAL ENGLISH OLYMPIAD	IGO INTERNATIONAL G.K. OLYMPIAD	BIFO BSE INTERNATIONAL FINANCE OLYMPIAD	NIPO NATIONAL IIT-PMT OLYMPIAD
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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level 2 in Art, Cricket, Cyber, NIPO and Biotech.

Level - 3 : Toppers will qualify* for level 3-International level-where you will compete with students globally. Get selected for EHF's International Olympiad training camp. Only Indian organization giving students exposure to global competitions. Represent India & win laurels. Guidance by top scientists. Prizes ranges from cash (millions of \$), gadgets, foreign trips, publicity, fame, scholarships, Internships, conference participation and more.

* See prospectus/website for details

1. You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**.
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

EHF
NATIONAL
INTERACTIVE
MATHS
OLYMPIAD

NIMO

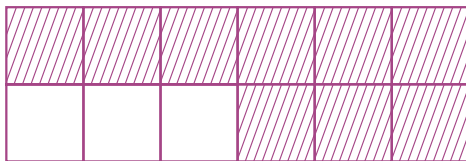
5
Class

B1
Paper
Code

LEVEL - 1

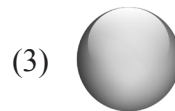
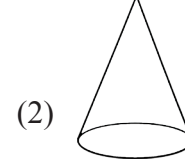
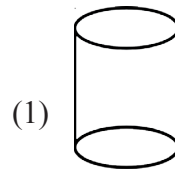
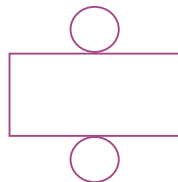
MENTAL ABILITY

1. The fraction of non-shaded region in simplest form can be represented as



- (1) $\frac{3}{4}$ (2) $\frac{3}{12}$
(3) $\frac{2}{4}$ (4) None of these

2. Which figure will this net make?



(4) None of these

3. Which would be the next figure?



(4) None of these

4. What is the interval between the bus departures?

Departure	
7:55	am
8:20	am

- (1) 25 mins (2) 1 hr
 (3) 30 mins (4) None of these

5. Which line of symmetry does 'W' have?

- (1) Horizontal (2) Vertical
 (3) Both 1 & 2 (4) None of these

MATHEMATICS

6. A class has 15 girls and 18 boys. What fraction of the students are boys?

- (1) $\frac{33}{11}$ (2) $\frac{5}{11}$
 (3) $\frac{6}{11}$ (4) None of these

7. The double of 0.4 is

- (1) 0.8 (2) 1.6
 (3) 0.6 (4) None of these

8. Count the number of ducks.



Select the set of numbers that are multiples of the number of ducks.

- (1) 1,2,4 (2) 14,18,22
 (3) 16,20,24 (4) None of these

9. It takes Meena $\frac{1}{2}$ hour to wash, comb her hair and put on her clothes and $\frac{1}{4}$ hour to have her breakfast. How much time does it take Meena to be ready for school?

- (1) $\frac{3}{4}$ hour (2) 1 hour
 (3) $\frac{2}{4}$ hour (4) None of these

10. Is $25 + 56$

- (1) Even (2) Odd
 (3) Can't say (4) None of these

11. There were originally 5,981 houses in the society. During a housing boom, developers built 8,794 more. How many houses are there now?

- (1) 15,000 (2) 14,550
 (3) 14,775 (4) None of these

12. Find the missing number in this sequence:

1, 4, , 64, 256

- (1) 16 (2) 5
 (3) 8 (4) None of these

13. Which is a better estimate for the height of a tall mountain?

- (1) 5 centimetres (2) 5 kilometres
 (3) 5 millimetres (4) None of these

14. Convert:

234 cm = m cm

- (1) 23, 4 (2) 200, 34
 (3) 2, 34 (4) None of these

15. Look at this clock:



What time will it be in 2 hrs?

- (1) 5:20 (2) 6:20
 (3) 7:20 (4) None of these

16. Which one is NOT a name for this figure?



- (1) Polygon (2) Quadrilateral
 (3) Parallelogram (4) None of these

17. How many sides does a pentagon have?

- (1) 4 (2) 5
 (3) 6 (4) None of these

18. Billu painted a shape that had 3 sides. Which shape could Billu have painted?

- (1) Triangle (2) Parallelogram
 (3) Heptagon (4) None of these

The table represents the number of flowers a nursery produces

Month	Flowers
Jan - Feb	✳✳✳✳ ✳ = 100 flowers
Mar - April	✳✳✳✳✳✳✳✳
May - June	✳✳
July - Aug	✳✳✳✳✳✳✳
Sep - Oct	✳✳✳✳✳✳✳
Nov - Dec	✳

Using the table answer the following questions (Q. No. 19 & 20).

19. In which period maximum number of flowers produce?

- (1) July-Aug
- (2) Mar-April
- (3) Sep-Oct
- (4) None of these

20. What does  represents in a pictograph?

- (1) 10 flowers
- (2) 100 flowers
- (3) 50 flowers
- (4) None of these

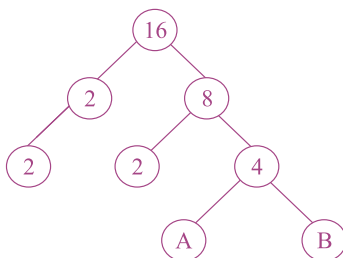
INTERACTIVE SECTION

21. Mamta has a garden, every week more flowers grew. Three flowers grew during the second week, six during the third week and ten during the fourth week. If the pattern continues then how many flowers grew during the eighth week.

Week	Flowers
1	1
2	3
3	6
4	10
5	15

- (1) 28
- (2) 36
- (3) 42
- (4) None of these

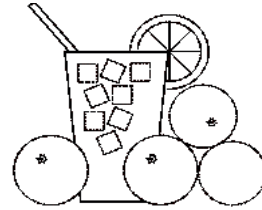
22.



What number goes in A and B?

- (1) A = 3, B = 2
- (2) A = 2, B = 3
- (3) A = 2, B = 2
- (4) None of these

23. Count the number of squares in the picture.



- (1) 8
- (2) 10
- (3) 7
- (4) None of these

24. A packet of 5 buns costs ₹15. How much will 20 buns cost?



- (1) ₹ 300
- (2) ₹ 60
- (3) ₹ 100
- (4) None of these

25. The sum of lengths of all sides of a closed plane figure is



- (1) Perimeter
- (2) Area
- (3) Rectangle
- (4) None of these



END OF THE EXAM