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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 G.K. 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. Level 3 is in Maths, Science & Cyber only.

\*# See prospectus/website for details

1. You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
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 except for classes 1 and 2.

**NATIONAL  
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OLYMPIAD**

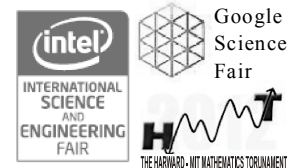
**NIP O**

**6  
Class**

**A1  
Paper  
Code**

**LEVEL - 1**

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## MATHEMATICS

1. Which is not a composite number?  
(1) 26                      (2) 15  
(3) 17                      (4) 4
2. In roman numerals, 1400 =  
(1) MCD                      (2) DIXC  
(3) MDX                      (4) XCD
3. Sudhir bought a bat and ball for playing. The bat cost ₹66.50 and the ball cost ₹52.25. If he bought 3 bats and 5 balls, then how much money did Sudhir spend in all?  
(1) ₹450.00                      (2) ₹460.75  
(3) ₹500.00                      (4) None of these
4. How can you check an answer of a quotient with a

remainder?

- (1) Quotient × Dividend × Divisor = Remainder
- (2) Quotient × Divisor – Dividend = Remainder
- (3) Dividend – (Quotient × Divisor) = Remainder
- (4) None of these
5. The first two multiples of 6 are  
(1) 6, 12                      (2) 12, 18  
(3) 6, 24                      (4) None of these
6. The HCF of 14, 23, 35 is  
(1) 9                      (2) 1  
(3) 7                      (4) None of these
7. The sixth multiple of 9 is  
(1) 45                      (2) 54  
(3) 63                      (4) 48

8. Write your answer in the simplest form

$$6\frac{2}{11} - 7\frac{1}{11} + 2\frac{10}{11} =$$

- (1)  $\frac{22}{11}$                       (2)  $\frac{17}{11}$   
 (3)  $\frac{9}{11}$                         (4)  $\frac{32}{11}$

9. Which is a true statement?

- (1) 37 is a composite number  
 (2)  $\frac{12}{10} = 1.2$   
 (3) A prime number has only few factors  
 (4) 0 is the multiplicative identity

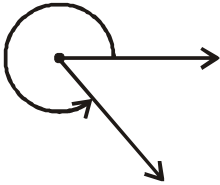
10. Which is shortest?

- (1) 1 mm                      (2) 9 inches  
 (3) 10 cm                    (4) 0.01 m

11. Renu's bag is 1.04 kg lighter than Ram's bag. Renu's bag weighs 3.08kg. How much does Ram's bag weigh?

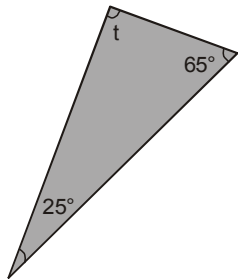
- (1) 4.12kg                    (2) 41.2kg  
 (3) 4.02kg                    (4) None of these

12. The given angle is-



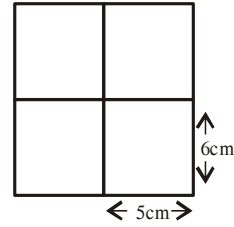
- (1) Acute                      (2) Obtuse  
 (3) Reflexive                (4) Right

13. What is the measure of the missing angle?



- (1)  $0^\circ$                         (2)  $90^\circ$   
 (3)  $180^\circ$                     (4) None of these

14. What is the area?



- (1)  $120 \text{ cm}^2$                 (2)  $60 \text{ cm}^2$   
 (3)  $30 \text{ cm}^3$                 (4) 120 cm

15. Look at the pattern below:

100, 104, 108, 112, 116, 120, 124

What is the rule of the pattern?

- (1) Counting by 4s            (2) Counting by 14s  
 (3) Counting by 24s        (4) Counting by 40s

16. Rahul's age is seven years less than twice the age of his cousin Suresh. Suresh's present age is  $x$  years.

What is Rahul's present age?

- (1)  $(2x - 7)$  years            (2)  $2(x - 7)$  years  
 (3)  $(2x + 7)$  years            (4)  $2(x + 7)$  years

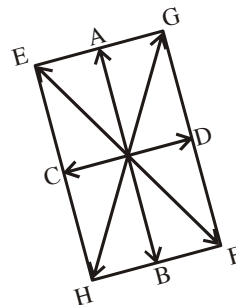
17. Arzoo and Nitin have same amount of money in the ratio 3:4. If Arzoo has ₹ 1215, then what amount does Nitin have?

- (1) 1500                        (2) 1496  
 (3) 1620                        (4) 1220

18. The supplementary angle of  $68^\circ$  is-

- (1)  $12^\circ$                         (2)  $112^\circ$   
 (3)  $54^\circ$                         (4)  $90^\circ$

19. Which pair of line segments are lines of symmetry for the rectangle?



- (1) AB and EF                (2) HG and CD  
 (3) EF and GH                (4) AB and CD

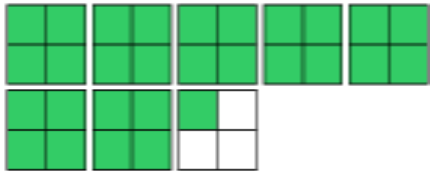
20. Three hundred sixty million five hundred eleven thousand, two hundred forty is represented in numbers as

- (1) 365011204            (2) 360511240  
(3) 360115240            (4) None of these

21. The sum of all four angles of a quadrilateral is

- (1)  $180^\circ$                     (2)  $540^\circ$   
(3)  $360^\circ$                     (4)  $270^\circ$

22. Which number is same as the one shown?



- (1)  $6\frac{3}{4}$                       (2)  $6\frac{1}{4}$   
(3)  $7\frac{1}{4}$                       (4)  $7\frac{2}{4}$

23. Which is a false statement?

- (1) A hexagon is polygon  
(2) Measure of angles of an equilateral triangle are  $60^\circ$  each  
(3) Sides of a rhombus are equal  
(4) Heptagon is a quadrilateral

24. The difference between the place value and face value of 5 in 91, 25, 678 is

- (1) 4995                    (2) 7213  
(3) 1600                    (4) None of these

25. The Roman numeral for 61 is

- (1) LC                      (2) XLI  
(3) LXI                    (4) CM

## SCIENCE

26. Animal poaching is

- (1) Keeping animals in zoo  
(2) Illegal killing of animals  
(3) Stealing of animals  
(4) None of these

27. Which of the following gives energy instantly ?

- (1) Apple                    (2) Glucose  
(3) Milk                    (4) None of these

28. As the seedling leaves grow bigger, the seed leaves shrink because

- (1) They feel colder under the ground  
(2) Food stored in them is used up  
(3) Sunlight make them shrink  
(4) None of these

29. Malaria is spread by

- (1) Female mosquito    (2) Male mosquito  
(3) Both 1 and 2        (4) None of these

30. Which is not a vitamin deficiency disease ?

- (1) Scurvy                    (2) Rickets  
(3) Marasmus              (4) None of these

31. Barometer is used to measure

- (1) Air pressure  
(2) Water pressure  
(3) Speed of water flow  
(4) None of these

32. Which of the following will release more smoke while burning ?

- (1) Dry wood              (2) Damp wood  
(3) Biogas                (4) None of these

33. CNG stands for

- (1) Coloured Natural Gas  
(2) Custom Natural Gas  
(3) Compressed Natural Gas  
(4) None of these

34. The shape of the earth is

- (1) Round                    (2) Square  
(3) Oval                    (4) None of these

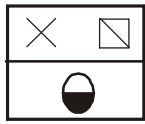
35. Which type of teeth is formed last in one's life ?

- (1) Molars                    (2) Wisdom  
(3) Canines                (4) None of these

36. Which part of an apple tree becomes the fruit ?

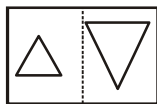
- (1) Stem                    (2) Root  
(3) Leaves                (4) None of these

37. Which is a social insect ?  
 (1) Mosquitoes (2) Honey bees  
 (3) Bed bugs (4) None of these
38. "Small intestine is the longest organ of your body."  
 (1) True (2) False  
 (3) Can't say (4) None of these
39. Who can hear ultrasonic sounds ?  
 (1) Elephants (2) Bats  
 (3) Dogs (4) None of these
40. A house plant is wilting, however it is still green.  
 Which vital resource is most likely lacking ?  
 (1) Plant food (2) Sunlight  
 (3) Water (4) None of these
41. Which of the following is the correct mirror image  
 for the figure given below ?



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

42. In the following question, a related pair of figure is followed by four pair of figures. Select the pair that has a relationship similar to that in the original pair.



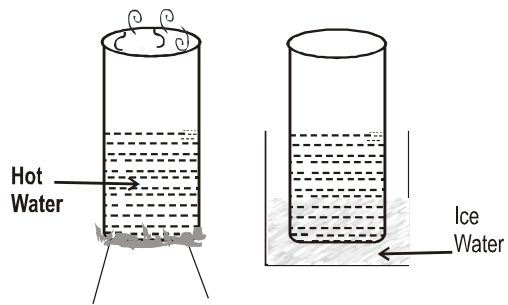
- (1) (2)
- (3) (4) None of these

43. My successor's father is my father's son and I don't have any brothers or sons. Who is my successor ?

- (1) Daughter (2) Niece  
 (3) Myself (4) None of these

44. 87 kg of potatoes are distributed in two boxes. One box weighs 11 kg less than the other one. How many kilograms of potatoes does the lighter box contain ?  
 (1) 38 (2) 37  
 (3) 36 (4) None of these
45. 30 years ago it would take a worker five hours to make a chair. Today it takes him just 30 minutes, what does it means?  
 (1) Man has become more industrious  
 (2) People work faster in order to avoid unemployment  
 (3) Productivity has increased  
 (4) None of these

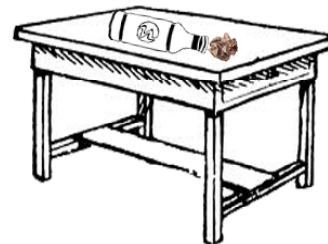
46.



Take some water in an empty soda can and keep it on the burner. When the water boils, remove the can from the heat and quickly put it in a container of ice water. What will be your observation ?

- (1) The can will collapse  
 (2) The can will explode  
 (3) No change will happen  
 (4) None of these

47.



Take an empty water bottle and lay it horizontally on a table. Roll a piece of paper into a small ball about

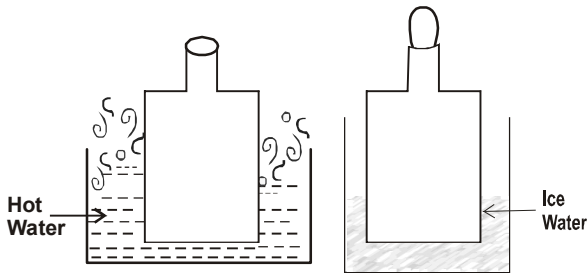
half the size of the opening and blow the ball into the bottle. What is your observation ?

- (1) The paper ball will enter the water bottle
- (2) The paper ball will be pushed away from the water bottle
- (3) The paper ball will remain stationary.
- (4) None of these

48. Blow up two balloons and attach a piece of string to each. Hold one balloon by the string in each hand and position the balloons so that they are at your nose level. Blow hard into the space between the balloons. What will happen to the balloons ?

- (1) The balloons will come closer.
- (2) The balloons will move apart.
- (3) Nothing will happen
- (4) None of these

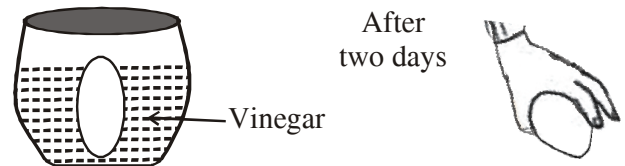
49.



Take a glass bottle and put it in a bowl of hot water for about 5 minutes. Move the bottle to a bowl of ice water and wet an egg and place it in such a way that its pointed side touches the bottle opening. As the air inside the bottle cools, what will happen to the egg ?

- (1) The egg will break
- (2) The egg will slowly move into the bottle
- (3) No change will occur to the position of the egg
- (4) None of these

50.



Put a raw egg into a bowl and cover it completely with vinegar. After two days drain off the vinegar and touch the egg without breaking the membrane. What will you feel when you touch the egg ?

- (1) It will be very hard
- (2) It will feel rubbery
- (3) It will stick to our fingers
- (4) None of these



**END OF THE EXAM**