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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, 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

- 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.
- 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.
- 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.**

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N I M O

7
Class

A1
Paper
Code

LEVEL - 1

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THE HARVARD - MIT MATHEMATICS TOURNAMENT

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MENTAL ABILITY

- Which letter comes half way between G and S in the alphabet ?
(1) M (2) N
(3) O (4) None of these
- A class of boys are standing in a long line. One boy is 9th in order from both ends. How many boys are there in the class ?
(1) 17 (2) 18
(3) 20 (4) None of these
- Subtracting 40% of a number from the number, we get the result as 30, then find the number.
(1) 28 (2) 52
(3) 50 (4) None of these

- Rohit made a dish by using the following ingredients:

Flour - $\frac{1}{4}$

Rice - $\frac{3}{4}$

Sugar - $\frac{1}{2}$

Butter - $\frac{1}{4}$

What is the total amount of ingredients used to prepare the dish?

(1) $3\frac{2}{4}$ (2) $2\frac{4}{3}$

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

5. Are the equations $3(2x-4)=-18$ and $6x-12=-18$ equivalent?
 (1) Yes, they are (2) No, they aren't
 (3) Can't say (4) None of these
6. A certain no. of tennis balls were purchased for ₹ 450. Five more balls could have been purchased in the same amount if each ball were cheaper by ₹ 15. The number of balls purchased was:
 (1) 10 (2) 15
 (3) 20 (4) None of these
7. Each boy contributed rupees equal to the number of girls and each girl contributed rupee equal to the number of boys in a class of 60 students. If the total contribution collected is ₹ 1600, how many boys are there in the class?
 (1) 25 (2) 30
 (3) 50 (4) Cannot be determined
8. A total of 324 coins of 20 paise and 25 paise make a sum of ₹ 71. The number of 25 paise coins is
 (1) 120 (2) 124
 (3) 144 (4) None of these
9. In a group of buffaloes and ducks, the number of legs are 24 more than twice the number of heads. What is the number of buffaloes in the group?
 (1) 6 (2) 8
 (3) 12 (4) None of these
10. A student read $\frac{3}{8}$ th of a book on one day and $\frac{4}{5}$ of the remaining on another day. If there were 30 pages unread, how many pages did the book contain?
 (1) 240 (2) 300
 (3) 600 (4) None of these
11. Simplest form of fraction 1.34 is
 (1) $\frac{67}{50}$ (2) $1\frac{34}{100}$
 (3) $\frac{1.34}{100}$ (4) None of these
12. The decimal form of, thirteen-hundredth is
 (1) 1.3 (2) 0.13
 (3) 0.013 (4) None of these
13. The perimeter of an equilateral triangle is
 (1) Side + Side + Side
 (2) Side x Side x Side
 (3) 3 + Side
 (4) None of these
14. The amount of surface enclosed by a closed figure is its:
 (1) Perimeter (2) Area
 (3) Flat surface (4) None of these
15. The age of Siddharth is x year, Sahil is 5 years older than Siddharth therefore Sahil's age is
 (1) 5x (2) x - 5
 (3) x + 5 (4) None of these
16. z multiplied by 5 and then subtracted from 7 is
 (1) 5z - 7 (2) z - 35
 (3) 7 - 5z (4) None of these
17. Fill in the blank : $15/18 = \frac{\quad}{6}$
 (1) 5 (2) 4
 (3) 3 (4) None of these
18. Find the value of x in $4 : 3 = x : 12$?
 (1) 4 (2) 12
 (3) 16 (4) None of these
19. If 'p' is an odd number 'q' is an even number and 'v' is an odd number. Then p+ q+ v is :
 (1) Odd number
 (2) Even number
 (3) Any non-prime number
 (4) None of these
20. The two numbers which have only '1' as the common factor are called:
 (1) Prime number
 (2) Composite numbers
 (3) Coprime numbers
 (4) None of these

MATHEMATICS

11. In a vegetable garden $\frac{1}{6}$ of the area is covered with lettuce and $\frac{5}{12}$ with tomato plants. What fraction of the area is planted with these?
 (1) $\frac{5}{7}$ (2) $\frac{7}{12}$
 (3) $\frac{8}{12}$ (4) None of these
12. Latika painted $\frac{7}{10}$ of a wall. Champa painted another $\frac{1}{5}$ of it. What fraction of the wall was painted?
 (1) $\frac{10}{9}$ (2) $\frac{9}{10}$
 (3) $\frac{8}{10}$ (4) None of these

23. $(-3) \{(-6) + (20)\} \times (-3) - (7-9)(-2)$
 (1) 120 (2) 112
 (3) 122 (4) None of these
24. $24 + 33 \div (34 - 23)$
 (1) 27 (2) 26
 (3) 28 (4) None of these
25. Find the HCF of the following set of numbers.
 140, 196, 260
 (1) 2 (2) 4
 (3) 1 (4) None of these
26. Find the highest common factor of 24 and 40.
 (1) 5 (2) 6
 (3) 8 (4) None of these
27. Two angles are complementary angles to each other. If the measure of one of the angles, is represented by $2y$, find the measure of its complementary angle.
 (1) $180 + 2y$ (2) $90 - 2y$
 (3) $180 - 2y$ (4) None of these
28. What type of angle will be formed between two hands of a clock at 5:20?
 (1) Obtuse (2) Right
 (3) Acute (4) None of these
29. Which of the following is an incorrect statement?
 (1) A ray start from one point and can travel in any direction.
 (2) A line has one end point.
 (3) A line segment is made up of infinite number of rays.
 (4) None of these
30. $(-5 + 4 - 11 + 32)$
 (1) -20 (2) 20
 (3) -21 (4) None of these
31. Which of the following pair of fractions are equivalent?
 (1) $\frac{5}{9}, \frac{30}{54}$ (2) $\frac{3}{10}, \frac{12}{50}$
 (3) $\frac{8}{7}, \frac{16}{21}$ (4) None of these
32. $\frac{1}{3}$ is $\frac{1}{8}$ of which number?
 (1) $\frac{8}{3}$ (2) $\frac{3}{8}$
 (3) $\frac{1}{2}$ (4) None of these
33. In 9.07, in which place is the 7?
 (1) Ones (2) Hundredths
 (3) Tenths (4) None of these
34. In power notation $\frac{81}{16}$ can be expressed as:
 (1) $\left(\frac{3}{2}\right)^5$ (2) $\left(\frac{3}{2}\right)^4$
 (3) $\left(\frac{3}{4}\right)^4$ (4) None of these
35. What will be the cost of tiling a rectangular plot of area 800sq.m., if the cost of tiling 100sq.m is `6?
 (1) `14 (2) `48
 (3) `4800 (4) None of these
36. What is the length of the garden if area of rectangular garden of width 60m is 300 sq.m?
 (1) 900m (2) 90m
 (3) 5m (4) None of these
37. The perimeter of a triangle whose sides are 5cm, 2cm and 3 cm.
 (1) 30cm (2) 11cm
 (3) 10cm (4) None of these
38. The perimeter of a rectangle whose length is 4cm and breadth is 5cm.
 (1) 9cm (2) 20cm
 (3) 18cm (4) None of these
39. The price of potatoes is `x per kg and price of onion is `10 more than the price of potatoes. Therefore the price of per kg onion is
 (1) $10 \times$ (2) $x + 10$
 (3) $x / 10$ (4) None of these
40. Sarita's present age is 'm' years. What will be her age after 10 years?
 (1) 10m years (2) $m - 10$ years
 (3) $m + 10$ years (4) None of these

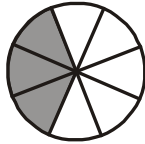
INTERACTIVE SECTION

41. In $\triangle ABC$, if $AB = BC$, then :
 (1) $B > C$ (2) $A > C$
 (3) $A > B$ (4) None of these

42. Among two congruent angles, one has measure of 70° , the measure of other angle is :
- (1) 35° (2) 70°
 (3) 140° (4) None of these

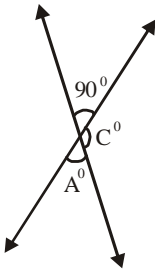
43. Given: TRAP is an isosceles trapezoid with diagonals \overline{RP} and \overline{TA} which of the following must be true?
- (1) $\overline{RP} \perp \overline{TA}$ (2) $\overline{RP} \parallel \overline{TA}$
 (3) $\overline{RP} \cong \overline{TA}$ (4) None of these

44. Estimate what part of the figure is coloured and hence find the percent which is coloured.
- (1) $3/5$, 60%
 (2) $3/8$, 37.4%
 (3) $3/8$, 37.5%
 (4) None of these

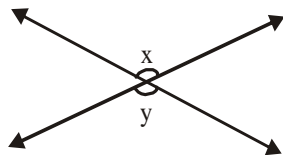


45. The percentage of marks obtained by Arun in mathematics if he got 48 out of 80 is:
- (1) 60% (2) 50%
 (3) 40% (4) None of these




46. The measure of angle A and angle C are?
- (1) 85° , 65°
 (2) 180° , 60°
 (3) 90° , 90°
 (4) None of these



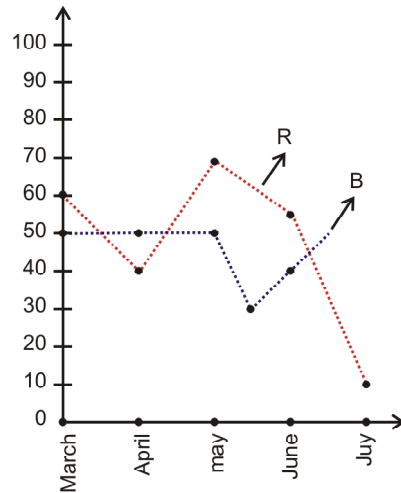
47. Angle y and angle x are an example of ____.
- (1) Adjacent
 (2) Vertically opposite
 (3) Complementary
 (4) None of these



48. Sachin saw a 3-D figure. It had a square base. Which figure could Sachin have seen?

- (1)  Cone
 (2)  Triangular box
 (3)  Triangular prism
 (4) None of these

49. Market analyst is monitoring the production levels at various paper mills in order to predict future trends in the paper industry



Key : B Edwardo's Paper
 R Ever Bright Paper

How many tonnes of paper did Edwardo's paper produce in June?

- (1) 30 (2) 60
 (3) 45 (4) None of these
50. The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Days	Rainfall (in mm)
Monday	0.0
Tuesday	12.2
Wednesday	2.1
Thursday	0.0
Friday	20.5
Saturday	5.5
Sunday	1.0

Find the range of rainfall in the above data.

- (1) 20.5 mm (2) 20 mm
 (3) 19.5 mm (4) None of these



END OF THE EXAM