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Lev	INTERNATIONAL CYBER OLYMPIADNATIONAL INTERACTIVE SCIENCE OLYMPIADINTERNATIONAL INTERNATIONAL ENGLISH OLYMPIADINTERNATIONAL G.K. OLYMPIADBSE INTERNATIONAL FINANCE OLYMPIADPMTLevel - 1: All Level-1 successful* participants will get certificate, apititude report and online 				
1. 2. 3.	 (OMR). STUDENTS OF CLASS 1 & 2 HAVE TO <u>UNDERLINE</u> 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. All questions are compulsory. Further instructions are given in the instruction letter to the teacher. 				
	MATHEMATICS	3. A polygon, whose measure of all angles are more than 90° is			
1.	What is the multiplicative inverse of $6\frac{3}{4}$?	(1) Triangle(2) Square(3) Pentagone(4) Trapezium			
2.	(1) $\frac{4}{25}$ (2) $\frac{4}{27}$ (3) $\frac{4}{26}$ (4) $\frac{5}{27}$ Which number line correctly shows the rational numbers $\frac{-6}{11}$, $\frac{-7}{11}$ and $\frac{-2}{11}$?	4. $9\frac{3}{4} + 11\frac{1}{2} + 8\frac{1}{4}$ equals (1) 28.5 (2) 27.5 (3) 30.5 (4) 29.5 5. $\frac{-3}{7}$ lies (1) Between -1 and 0 (2) To the right of 0 on the number line (3) Doesn't lies on the number line (4) All of above			
	(1) $\leftarrow 1$ $-7/11$ $-2/11$ 0 (2) $\leftarrow 1$ $-7/11$ $-2/11$ 0 -1 $-6/11$ 0	(4) All of above6. The given figure shows a rectangle ABCD. Line segments XY and XB are then drawn inside the rectangle. What is the area of the shaded region in the given figure?			

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(3) $\leftarrow -1$ (4) None of these

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-7/11 -2/11 -6/11 -2/11

1



7. Which statement correctly represents the equation

$$\frac{5}{3}(q+9) = 12$$
 ?

- (1) The product of $\frac{5}{3}$ and 9 more than q equals 12.
- (2) Five-Third of the product of q and 9 equals 12.
- (3) The sum of Five-third of q and 9 equals 12
- (4) Five-third the sum of q and 9 equals 12.
- What is the value of y for the equation 8.

6

9

$$\frac{5}{2}(y+1)+4 = 24 ?$$
(1) 5 (2)
(3) 7 (4)

- 9. Which expression would be added to $(-12x^2+14y^2+6xy^2+48x^2y)$ to obtain $(17x^2y - 2x^2 - 6y^2 + 15xy^2)$? (1) $10x^2 - 20y^2 + 9xy^2 - 31x^2y$ (2) $17x^2 + 10y^2 + 9xy^2 + 30x^2y$ (3) $10x^2 - 15y^2 + 9xy^2 + 15x^2y$ (4) $7x^2 + 17y^2 + 27xy^2 - x^2y$
- 10. Which expression is obtained upon subtracting the sum of $(2x^3 + 7x^2 + 4x)$ and $(2x^3 - 4x^2 - 5x + 7)$ from the sum of $(-x^3 + 7x + 6)$ and $(3x^3 - 5x^2 - 11x - 3)$?
 - (1) $2x^3 + 8x^2 + 3x + 4$

 - (1) $2x^3 8x^2 5x 4$ (2) $-2x^3 8x^2 5x 4$ (3) $6x^3 2x^2 5x + 10$ (4) $-6x^3 + 2x^2 + 5x 10$
- 11. In which of the following figures does the dotted line represent the line of symmetry?



12. The given figure shows three concentric circles.

What is the area of the shaded region in the given figure? (1) 44π (2)54π

- (3) 36π
- 13. In the given figure, side RS of parallelogram PQRS is produced to point T. What is the measure of $\angle PQR$.

(4)

64π



- 14. In the given figure, lines X and Y are cut by a transversal Z. In the given figure, lines X and Y are parallel if
 - (1) $\angle 1 = \angle 5$
 - (2) $\angle 2 = \angle 5$
 - (3) $\angle 2 = \angle 3$
 - (4) $\angle 4 = \angle 5$
- **15.** Which of the following statement is correct?
 - (1) Sum of an obtuse angle and an acute angle can be complementary.
 - (2) Sum of two acute angles can be supplementary.
 - (3) Sum of an obtuse angle and an acute angle can be supplementary.
 - (4) Sum of two obtuse angles can be complementary.
- 16. What is the perimeter of the given figure?
 - (1) 89cm
 - 102cm (2)
 - (3) 61cm
 - (4) 58cm



- 17. What is the value of 'X' in the given figure?
 - 150° (1)
 - 28° (2)
 - (3) 156°
 - 85° (4)



18. In the given figure,

 $\triangle ABC$ is congruent to 24 cm 7 cm $\triangle POR.$ В If PC = 20 cm, then what is the length of AR? (1) 20 cm $(2) 30 \, \mathrm{cm}$ (3) 40 cm (4) 50 cm

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19.	In the given figure PQ = RS and QR = ST What type of a triangle is \triangle PRT ? (1) Equilateral triangle (2) Isosceles (3) Both (1) and (2) P = T 60° Q = R R		If $A \neq B$, then what is the value of $(A^2 + B^2 - AB)$? (1) 40 (2) 48 (3) 60 (4) 55 SCIENCE
	(3) Both (1) and (2) $Q = R S$ (4) None of these		
20.	Which of the following statement is true about the given	26.	The nucleus is surrounded by a jelly like substance in a cell which is called
200	diagram?		(1) Cytoplasm (2) Cell membrane
	(1) \triangle ABC is isosceles,		(3) Protoplasm (4) None of these
	if $AB \neq BC \neq CA$. (2) $\triangle ABD \cong \triangle ACD$, if $BD=1/2BC$ and $\angle ABD=\angle ACD$. (3) $(\angle ABD + \angle BAD + ADB) < (\angle ABC + \angle BAC + ACD)$ (4) None of these	27.	 Seasonal changes occur because (1) Of green house gases. (2) Earth's rotation on its axis. (3) Earth's axis of rotation is tilted at an angle to the normal (4) None of these
21.		28.	The salivary glands secrete
	<i>L</i> (4, 0) and <i>M</i> (3, 7)?		 Pepsin Trypsin Ptyalin None of these
	Y	29.	
		27.	humus?
	9- 8- 7- • 7-		(1) Desert soil (2) Mountain soil
	6- 6- 5- 5-	20	(3) Laterite soil (4) None of these
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	30.	Which cells are involved in respiration ?(1) WBC(2) RBC(3) Blood plasma(4) None of these
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	31.	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	32.	Female reproductive part of a flower is called(1) Carpel(2) Sepal(3) Petal(4) None of these
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33.	8
	2- 1- 2- 1-		the group ? (1) Copper (2) Plastic
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(3) Aluminium (4) None of these
22.	Factorize $a^4b - ab^4$ (1) $ab(a^3 + b^3)$ (2) $ab(a - b)(a^2 + ab + b^2)$ (3) $ab(a + b)(a^2 - ab + b^2)$ (4) $ab(a^2 - b^2)$	34.	
23.	In area of a triangle formed by the points $(1,0)$ $(1,2)$ and the		 Conduction Convection Radiation None of these
	origin is	35.	
	(1) 1 sq. unit (2) 2 sq. unit		liberate
24	$(3) 3 \text{ sq. unit} \qquad (4) 4 \text{ sq. unit}$		(1) Oxygen (2) Carbon monoxide
24.	If x and y are the smallest digits in the numbers $311x^2$ and $42y^5$ such that they are divisible by 7, then what is	36.	(3) Carbon dioxide (4) None of these.The bending of the stem of a plant towards a source of
	difference between x and y?	50.	light is called
			(1) Phototropism (2) Photorespiration
25	(3) 7 (4) 8 The area duct of a two divit anythen with a number is simple	-	(3) Solar bending (4) None of these
25.	The product of a two digit number with a number is given as	37.	Pure water is (1) An atom (2) A compound
	7 A		(3) A mixture (4) None of these
	× 6	38.	
	$\overline{B6A}$		and converts them into dark coloured substance called
	Here, \overline{A} and \overline{B} are single digit numbers.		 (1) Fertilizers (2) Manures (3) Humus (4) None of these
			(3) Humus (4) None of these

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- **39.** Which of the following matches the word sterilisation ?
 - (1) Drinking water is treated with chlorine before domestic use
 - (2) The result of being injected with a dead or weakened form of a micro organism to stimulate antibody production
 - (3) Using yeast and sugar solution to make alcohol
 - (4) None of these
- 40. Tissue culture is used for the propagation of
 - (1) Potato (2) Spirogyra
 - (3) Jasmine (4) None of these
- 41. Blood does not clot in a person suffering from
 - (1) Leukaemia (2) Anaemia
 - (3) Haemophilia (4) None of these
- **42.** The end product of glycolysis is
 - (1) Glucose (2) Pyruvic acid
 - (3) Carbon dioxide (4) None of these
- **43.** The prime constituent of urine is
 - (1) Water (2) Urea
 - (3) Uric acid (4) None of these
- 44. Lemon juice contains
 - (1) Acetic acid (2) Citric acid
 - (3) Amino acid (4) None of these
- 45. Which is the mode of storage of food in plants
 - (1) Starch (2) Glycogen
 - (3) Glucose (4) None of these
- **46.** To show that zinc is more reactive than copper, the correct procedure is to
 - (1) Prepare copper sulphate solution and dip zinc strip in it
 - (2) Prepare zinc sulphate solution and dip copper in it
 - (3) Heat zinc and copper strips
 - (4) None of these

- **47.** The site of detoxification in liver cells is
 - (1) Lysosome (2) RER
 - (3) Ribosome (4) SER



This is the picture of which type of cells ?

- (1) Cheek cells (2) Muscle cells
- (3) Nerve cells (4) None of these.
- **49.** What can a Genetic Engineer do?
 - (i) He can create a clone
 - (ii) He can combine the genes of variety of individual in the same individual
 - (iii) He can grow two coloured flowers on a single plant
 - (1) All (i), (ii) and (iii) (2) Only (i) and (ii)
 - (3) Only (ii) and (iii) (4) None of these.
- **50.** Take a rubber sucker and press it hard against a smooth surface such as a window pane. This expels the air from it. We will find it difficult to pull it away. This is because
 - (1) Atmospheric pressure pushes it from inside
 - (2) Atmospheric pressure pushes it from outside
 - (3) Atmospheric pressure acts equally in all directions
 - (4) None of these

