

SYLLABUS 2023-24



CLASS

SYLLABUS OF MATHEMATICS OLYMPIAD Number Sense : Back and Forth Counting, Ones and Tens Computation Operations : Addition, Subtraction, Comparison Patterns : Patterns Money, Time and Calendar : Money, Time and Calendar Length, Weight and Comparison : Measurement Geometrical Shapes : Identification of Geometrical Figures Reasoning and Aptitude : Mental Aptitude

1.	Which of the following (A) 5 (C) 3	numbers is the largest? (B) 8 (D) 11	6.	How many si (A) 3 (C) 5	des does a hexagon have ? (B) 4 (D) 6
2.		shapes has four sides? (B) triangle (D) hexagon	7.	• •	ours are in a day ? (B) 24 (D) 48
3.	Which of the following (A) 4 (C) 8	numbers is odd ? (B) 6 (D) 9	8.	both 4 and 5 (A) 12	(B) 15
4.	6 tens + 5 tens + 14 or (A) 114 (C) 124	nes = (B) 1114 (D) None of these	9.	(C) 20 8 + 6 + 8 - 3 = (A) 19 (C) 14	(D) 25 ? (B) 10 (D) 13
5.	both 2 and 3 ? (A) 6	numbers is divisible by (B) 8	10	. Which of the (A) -5	following numbers is the smallest ? (B) -3
	(C) 10	(D) 15		(C) 0	(D) 2

				ANS	WERS				
(1) D	(2) C	(3) D	(4) C	(5) D	(6) D	(7) B	(8) C	(9) A	(10) A



SYLLABUS 2023-24



CLASS

SYLLABUS OF MATHEMATICS OLYMPIAD

Number Sense : Ones, Tens and Hundreds Computation Operations : Addition, Subtraction, Multiplication, Division, Comparison Patterns : Patterns Money, Time and Calendar : Money, Time and Calendar Length, Weight and Comparison : Measurement Geometrical Shapes : Geometrical Figures Reasoning and Aptitude : Mental Aptitude

1.	What is the place	value of digit 9 in 569873 ?
	(A) 9873	(B) 900
	(C) 9000	(D) 90

2. Add the numbers given in the box.

25	
31	
35	
,	

3.	6 pens to Jack. How ma	e gives 5 pens to Steve and ny pens have left with him
	now?	
	(A) 4	(B) 9

(B) 94

(D) 91

(D) 8

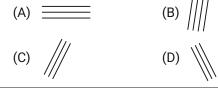
· /		
(C) 5		

(A) 90

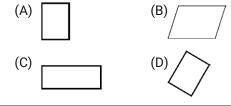
(C) 98

- 4. Which one of the following is not correct ?
 (A) 556 > 567
 (B) 554 < 555
 (C) 598 = 598
 (D) 452 > 450
- 5. Steve has 6 twenty rupees note. How much money he has?
 - (A) 120 rupees (B) 100 rupees (C) 115 rupees (D) 118 rupees
- 6. A travels a distance of 56 km and B travels a distance of 39 km. Who travels the longer distance and by how much ?
 (A) A by 17 km
 (B) A by 19 km
 - (C) B by 19 km (D) A by 20 km

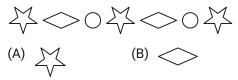
7. Which one of the following options has horizontal lines ?



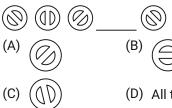
8. Which one of the following is not a rectangle?



9. Continue the pattern:



- (C) (D) All the above
- **10.** What will come in the blank on following correct order of the given figures?



(D) All the above

				ANS	WERS				
(1) C	(2) D	(3) A	(4) A	(5) A	(6) A	(7) A	(8) B	(9) B	(10) B

SAMPLE PAPER

SYLLABUS 2023-24



SYLLABUS OF MATHEMATICS OLYMPIAD **CLASS** Numbers and Their Operations : Number Sense and Numeration, Addition and Subtraction, Multiplication and Division Parts and Wholes : Fractions Money, Time and Calendar : Time and Calendar, Money, Unitary Method Length, Weight and Comparison : Measurement **Geometry :** Geometrical Shapes Pictograph and Bar Graph : Data Handling Reasoning and Aptitude : Reasoning and Aptitude What would be the total cost of 4 pens and 5 erasers? 1. There are four prime numbers between 1 and 10 and 7. again four prime numbers between 10 and 20. How Pens: ₹ 21 each Erasers: ₹ 5 each many prime numbers are there between 91 and 100? (A) 1 (B) 2 (C) 3 (D) 4 How many hundreds are there in 7308 ? (A) ₹ 110 (B) ₹ 111 (B) Three (C) ₹ 112 (D) ₹ 109 (A) Zero (C) Eight (D) Seven 8. Add 65 m 38 cm and 26 m 45 cm. 3. Which one of the following numbers will replace the (A) 91 m 83 cm (B) 98 m 13 cm question mark (?) in the number sentence given (C) 159 m 27 cm (D) 113 m 46 cm below? 137 - 49 = 24 + ?How many line segments are required to make the 9. alphabet W? (A) 65 (B) 64 (A) 6 (B) 4 (D) 63 (C) 62 (C) 3 (D) 5 4. The remainder and the quotient in the given division 10. Some notebooks are equally distributed among are: (341 ÷ 12) 5 students in a week as given below. If one symbol (A) 5 and 37 (B) 5 and 29 represents 2 notebooks, how many notebooks did (D) 5 and 28 (C) 4 and 34 each student get after the week? 5. In which of the following figures, the fraction Monday represented by shaded circles is equal to1/5? 00000 (A) (B) Tuesday $\left[\bigcirc \right]$ Wednesday (D) (C) Thursday Friday 6. When 3 hours 56 minutes is subtracted from Saturday 10:45 pm, the new time is: (A) 4 (B) 5 (B) 6:49 pm (A) 6 : 39 pm (C) 6 (D) 8 (C) 5: 39 pm (D) 4 : 29 pm

				ANS	WERS				
(1) A	(2) B	(3) B	(4) D	(5) B	(6) B	(7) D	(8) A	(9) B	(10) A

SAMPLE PAPER

SYLLABUS 2023-24



SYLLABUS OF MATHEMATICS OLYMPIAD

Numbers and Their Operations : Number Sense and Numeration, Roman numerals, Addition and Subtraction, Multiplication and Division Parts and Wholes : Fractions and decimals Money and Unitary Method : Money, Unitary Method Geometry : Geometrical Shapes Area and Its Boundary : Perimeter and Area Graphical Representation of Data : Data Handling Reasoning and Aptitude : Reasoning and Aptitude

1.	Successor of 66998 is:
	(.)

(A) 66997	(B) 66998
(C) 66999	(D) 66990

Find the two missing numbers in the number series given below.
 84, 75, 66, ?, 48, 39, ?
 (A) 54, 33
 (B) 57, 30

(C) 51, 37	(D) 53, 32

3. Sum of place value and face value of 7 in the number 8708 is:
(A) 708
(B) 807

(D) 707

- 4. The sum of two numbers is 52149. If one of them is 14732, then find the other number.
 (A) 37417
 (B) 39557
 (C) 35527
 (D) 38687
- 5. Which one of the following is a pair of like fractions ?
 (A) 3/17, 17/3
 (B) 12/8, 16/10
 (C) 4/17, 14/17
 (D) 14/21, 14/22
- 6. Three paise is equal to:

(A) ₹ 1/3	(B) ₹ 3/100
(C) ₹ 1/300	(D) ₹ 3.0

- 7. Susan's father bought 7 boxes of soda for a party. There were 28 cans in each box. How many cans of soda did her father buy altogether ?
 - (A) 186 (B) 196 (D) 206
 - (C) 112 (D) 206

- 8. Which one of the following is not a ray in the given figure ?

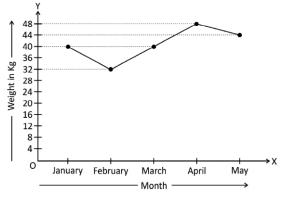
 E = B

 (A) AD

 (B) BD

 (C) AE

 9. The shapes given below are:
 - (A) triangles (B) quadrilaterals (C) polygons (D) pentagons
- **10.** Given line graph tells us about Maria's body weight in kilograms for 5 months.



- In which month, Maria's body weight was the lowest ? (A) January (B) February (C) April (D) May
- SPACE FOR ROUGH WORK

				ANS	WERS				
(1) C	(2) B	(3) D	(4) A	(5) C	(6) B	(7) B	(8) D	(9) C	(10) B



SAMPLE PAPER

SYLLABUS 2023-24



N F P G G	actors and Multiples arts and Wholes : Fractio ercentage, Ratio and Pro	tions : Number Sense and Nu ons and decimals oportion : Percentage, Ratio a ent : Measurement Geometry of Data : Data Handling	nd Prop		S,	LASS
1.	Sixteen crore sixteen la six hundred sixteen is:	kh sixteen thousand	7.	How long does a lorry ta speed of 60 km/h ?	ake to travel 228 km a	t the
	(A) 16,16,16,616	(B) 1,61,61,61,616		(A) 3 hours 12 minutes	(B) 3 hours 24 minu	too
	(C) 1,61,61,61,61,61	(D) 6,16,16,616		(C) 3 hours 48 minutes	(D) 4 hours 6 minut	
		(D) 0,10,10,010	_	(C) 5 Hours 46 Minutes	(D) 4 Hours o minut	
2.	Roman numerals for the number is:	e greatest three digit even	8.	Which one of the followi 15 minutes to 6 ?	ing clocks shows the	time
	(A) CMXCVIII	(B) CMLXXXIX		(A) 11^{12}	(B) (11 ¹²)	
	(C) CMXXVIII	(D) CMLXVIII				
	Find the missing number 2567209 + 0 + 63125 = (A) 0 (C) 63125	? + 2567209 (B) 2567209 (D) 2630334	_	(C) $\begin{pmatrix} 11 & 12 & 1 \\ 12 & 2 & 2 \\ 9 & 3 & 3 \\ 8 & 7 & 6 & 5 \\ 8 & 7 & 6 & 5 \end{pmatrix}$	(D) $\begin{pmatrix} 11 & 12 & 1 \\ 12 & 2 & 2 \\ 9 & - & 3 \\ 8 & 7 & 6 & 5 \end{pmatrix}$	
4.		is divided by 6th multiple	0	How many rectangular p	lots of land (30 m x	15 m)
	of 21, the result is: (A) 2	(B) 1		can be cut from a squar		
	(A) 2 (C) 3	(D) 7		(A) 100	(B) 300	<u>9</u> .
	(0) 5	(B) /	_	(C) 200	(D) 400	
5.	What per cent of 7 litres		-	. ,		
	(A) 0.1%	(B) 1%	10	. What per cent of a rupe	•	
	(C) 10%	(D) 0.01%		(A) 8%	(B) 40%	
6.	Simple Interest on ₹ 600 annum is:) for 6 years at 6% per	_	(C) 4%	(D) 20%	
	(A) ₹ 324	(B) ₹ 360				
	(C) ₹ 180	(D)₹216				

				ANS	WERS				
(1) A	(2) A	(3) C	(4) B	(5) B	(6) D	(7) C	(8) B	(9) C	(10) C

SAMPLE PAPER

SYLLABUS 2023-24



F F C C	GYLLABUS OF MATHEMATICS lumber Systems : Numbers a Parts and Wholes : Fractions a Algebra, Ratio and Proportion Geometry and Mensuration : N Graphical Representation of D Gets and Their Representation	nd Their Op Ind decimal : Algebra, R Mensuration ata : Data H	eratio s atio Geo landl	and F metr ing	Propoi y		Multiples	CLASS
1.	In 4,869,052,147 the digit 8 s (A) eight million (C) eight hundred million	stands for: (B) eighty (D) 8 billio		ion		7.	A car travels for 3 hours a at the speed of 80 km/h. of 96 km/h, then how mu the same distance ?	
2.	Find the sum of A, B and C ir where the sum of the numbe vertical line and diagonal rer	ers in every	horiz			8.	(A) 2 hours (C) $2^{2}/_{3}$ hours The difference of 124° an	(B) 2 ¹ / ₂ hours (D) 3 hours d 35° is a/an:
			11 6	7 C	B 10		(A) obtuse angle (C) acute angle	(B) right angle (D) zero angle
	(A) 17 (C) 12	(B) 11 (D) 14		1		9.	Find the cost of fencing a radius 14 m, at the rate of (use $\pi = 22/7$).	
3.	The integer which is 5 more (A) -3	(B) -4	+ (-3)} is:			(A) ₹ 812 (C) ₹ 642	(B) ₹ 778 (D) ₹ 864
4.	 (C) 5 Which of the following pairs co-primes ? (A) (43, 45) (C) (3, 5) 	(D) -2 is not a pai (B) (7, 8) (D) (9, 15)				10	The following pie chart sh of 240 students of a scho How many more students have Football as their favourite game than that	Badminton
5.	Product of the following mu 7213.4098 × 1000						of Volleyball ?	Lolleyball 15% Cricket 20%
	(A) 72.134098 (C) 7.2134098	(B) 72134 (D) 72134					(A) 48 (C) 42	(B) 36 (D) 58
6.	A boy has 120 pens out of w and 7/12 of red pens are gel pens does the boy have ?							
	(A) 48 (C) 42	(B) 60 (D) 36						

				ANS	WERS				
(1) C	(2) C	(3) B	(4) D	(5) D	(6) C	(7) B	(8) C	(9) D	(10) A



SYLLABUS 2023-24



	Decimals, Rational Number Algebra : Algebraic Express Ratio and its Applications Compound Interests Geometry and Mensuration Perimeter, Area of Closed	tions : Integers, Simplifying Arit rs, Exponents sions, Algebraic Identities & Lir : Ratio and Proportion, Percent n : Lines and Angles, Triangles, Figures ted to data and Graphical repre	near l age, Qua	Equations Profit and Loss, Simple drilaterals, Solid Shapes	and 7			
1.	The next number in the is (A) 17 (C) 19	oattern – 34, – 21, – 8, 5, (B) 18 (D) 20	6.	Which one of the two -7/8 or -6/7 ? (A) -7/-8 (C) both are equal	fractions is greater (B) -6/7 (D) cannot compare			
2.	Which one among the form (A) $(5 + 5)^5 = 5^5 + 5^5$ (C) one billion = 10 ⁹	-	7.	Which one among the (A) $6^5 > 5^6$ (C) $4^6 > 6^4$	following statements is true ? (B) $2^{12} < 12^{3}$ (D) $3^{6} < 6^{3}$			
3.	The factors of the term (A) $-5 \times 2 \times 3 \times x \times y$ (C) $-2 \times 3 \times 5 \times x \times y \times y$	(B) $- 6 \times 5x^2$ y	8.	Find the value of the for a = - 2 and b = - 3. a ³ (A) -75 (C) 39				
4.	What should be added t so that it may become e (A) 17 (C) 7	o each term of the ratio 3 : 8 qual to 2 : 3 ? (B) 12 (D) 22	9.	Find the compound in 10% per annum comp (A) ₹ 350	terest on 2,000 for 2 years at ounded annually. (B) ₹ 2450			
5.	If the selling price is dou Find the profit percent. (A) 125% (C) 75%	bled, the profit quadruples. (B) 50% (D) 100%	10	(C) ₹ 2350(D) ₹ 42010. If the range of 10 observations is 68 and its lowest score of the data is 34 then find the highest score of the data. (A) 68(B) 86 (C) 102(D) 102(D) 112				

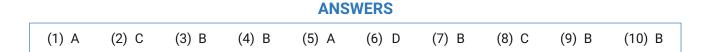
	ANSWERS										
(1) B	(2) C	(3) C	(4) C	(5) B	(6) B	(7) C	(8) B	(9) D	(10) C		



SYLLABUS 2023-24



R C G F	SYLLABUS OF MATHEMATICS OLYMPIAD Numbers and Their Operations : Integers, Simplifying Arithmetic Expressions, Fractions and Decimals, Rational Numbers and Exponents Algebra : Algebraic Expressions, Algebraic Identities & Linear Equations Ratio and its Applications : Ratio and Proportion, Percentage, Profit and Loss, Simple and Compound Interests Geometry and Mensuration : Lines and Angles, Triangles, Quadrilaterals, Solid Shapes, Perimeter, Area of Closed Figures Data Handling : Terms related to data and Graphical representation of data, Chance and Probability									
1.	Factorize the following (2a + 3b + c)2 - 20a - (A) (2a + 3b + c - 7) (2 (B) (2a - 3b + c + 7) (2	10c - 30b + 21. a + 3b + c - 3)	6.	The chart used to depic sub-portions is know as (A) Bar graph (C) Linear graph	:: (B)	divisio Line o Pie gi	graph		al into	
2.	(C) $(2a + 3b - c - 7)$ (2 (D) $(a + 3b + c - 7)$ (a - Find the solution set o	+ 3b + c - 3)	7.	If $x + 4/x = 4$, find the value of $x^3 + 4/x^3$. (A) 8 (B) 16 (C) $8^{1/2}$ (D) $16^{1/2}$						
	$8m + 16 \ge -48 \text{ and } -$ (A) $-8 \le m \le 8$ (C) $-8 \le m \le 5$	11 m + 27 ≤ −28. (B) − 6 ≤ m < 5 (D) − 6 ≤ m ≤ −5	8.	Y is to the west of X and north of W. R is to the southeast of Y and to the northwest of Q, who is to the east of W. R is in which direction of W ?						
3.	meet at M. Find $\angle PMC$	-		(A) South(B) West(C) North-East(D) South-EastWhich of the following can never be the measure of exterior angles of a regular polygon ?						
	(A) 45° (C) 30°	(B) 90° (D) 60°	9.							
4.		B and therefore is able to finish than B. Find the number of		(A) 20° (C) 36°	• • •	27° 72°				
	days required to comp together. (A) 20 days (C) 32 days	lete the work if they are working (B) 30 days (D) 40 days	10.	The quantity of petrol filled in a car and the cost of petrol are given in the following table. Find the cost of 24 litres of petrol using a linear graph.						
5.		le by digging earth whose		Quantity of petrol (in litres)	20	30	40	50	60	
		dth is 3 metre and height is		Cost of petrol (in Rs.) (A) ₹ 1000 (C) ₹ 1500	• •	1500 ₹120 ₹240		2500	3000	





SYLLABUS 2023-24



CLASS

SYLLABUS OF MATHEMATICS OLYMPIAD Real Numbers : Irrational Numbers, Real numbers and their Decimal expansions, Operation on real Numbers, Laws of Exponents for real numbers Algebra & Co-ordinate geometry : Polynomials in one variable, Zeroes of a polynomial, Factorization of Polynomials, Logarithms, Linear equation in two variables, Graph of Linear equation in two variables. Solution of Linear Equations. Co-ordinate geometry Geometry : Lines and angles, Triangles, Quadrilaterals, Circles Statistics and Probability : Measures of Dispersion, Mean, Median and mode, Probability of an Event

Applied Mathematics : Mensuration, Word Problems Based On Mathematics Reasoning and Aptitude : Reasoning and Aptitude

1.	If A = $\sqrt{13} - \sqrt{5}$ and B = $\sqrt{(A)} A > B$ (C) A = B	(B) A < B	6.	Find the least value from (A) ∜2 (C) ∛5	n ∜2, ∜3, ∛5, ¹ ∛7 (B) ∜3 (D) ¹ ∛7
2.	78 ³ – 33 ³ – 45 ³ is equal 1 (A) 347490 (C) 387490	to (B) 247280 (D) 387280	7.	to the mean of first 5 m (A) 9	(B) 5.6
3.	In a $\triangle ABC$, if $\angle A - \angle B =$ then (A) $\angle A = 71^{\circ}$ (C) $\angle A + \angle B = 109^{\circ}$		8.	(C) 2.8 The radius of the circle, triangle of side 16 cm is (A) $8\sqrt{3}$ / 3 cm	s inscribed, is (B) 16√3 / 3 cm
4.		(B) (k – 1) + m	9.	and missed it by 28 time missed the target is (A) 1/5	a person hits a target 7 times es then probability that he (B) 4/5
5.		r be mixed with pure milk of 20 % by selling it at cost (B) 1 : 5 (D) 4 : 3	10.	increased by 30% and a	percentage of his savings

				ANS	WERS				
(1) A	(2) A	(3) C	(4) C	(5) B	(6) D	(7) D	(8) A	(9) B	(10) C



SYLLABUS 2023-24



F G G T	Progression Algebra & Co-ordinate ge Quadratic equation, Distan Geometry : Similar figures Trigonometry : Trigonometry	ometry: Polynomials, Pair of Lin ometry: Polynomials, Pair of Lin nee Formula, Section Formula s, Similarity of Triangles, Circles, etry, Height and Distance : Mean, Mode and Median of gr ea and Volume	near Tang	equations in two	o variable:		class 10
1.		t divides 588, 1999 and 1650 0 and 12 respectively is	6.	If Sin (α + β) = to	1 then Co	s (α – β) can be	reduced
	(A) 117	(B) 109		(A) Sin 2β		(B) Cos 2β	
	(C) 27	(D) 43		(C) Sin α		(D) Cos β	
2.	A polynomial of degree (A) two zeroes (C) atleast n zeroes	n has (B) n zeroes (D) atmost n zeroes	7.	a lake is 30° a	nd the ang		point 90m above n of the reflection nt of the cloud.
3.	The points (– 5, 0), (0, 4 a) and (5, 1) are the vertices of		(C) 180 m		(D) 45 m	
	(A) right triangle (C) equilateral triangle	(B) isosceles triangle (D) scalene triangle	8.		and 15 res	n and the media spectively, then t	
4.	Find the solution set of			(A) 10		(B) 11	
		$(B) (4, \infty)$		(C) 12		(D) 13	
	(C) (-4, ∞)	(D) (- 4, 4)	9.		ng charac	ter from among	the given
5.	In the shown figure, an			alternatives.	A2 C4	E6	
		S. Find the value of x + y.			G3 I5	?	
		R R			M5 O9	Q14	
				(A) J15 (C) K15		(B) K8 (D) L10	
	Р	s	10	by another pol	lynomial x	$x^{3} + 16x^{2} - 25x + x^{2} - 2x + k$, the re ind the values o	mainder
	(A) 100°	(B) 110°		(A) 5, – 5		(B) – 5, 5	
	(C) 120°	(D) 150°		(C) 5, – 7		(D) 7, – 5	

ANSWERS									
(1) B	(2) D	(3) D	(4) B	(5) D	(6) A	(7) C	(8) D	(9) B	(10) A



SYLLABUS OF MATHEMATICS OLYMPIAD

Sets & Functions : Sets, Relations and Functions, Trigonometric functions

SAMPLE PAPER

SYLLABUS 2023-24



CLASS

Algebra : Complex number, Sequence and series, Permut Quadratic equation Co-ordinate Geometry : Straight lines, Conic Sections Calculus : Limits and derivatives Statistics and Probability : Measures of Dispersion, Rang Standard Deviation, Analysis of frequency Distribution, pr Reasoning and Aptitude : Reasoning and Aptitude	tation and combination, Inequality,					
 The set (AUBUC) ∩ (A∩B'∩C')' ∩ C' is equal to (A) B∩C' (B) A∩C (C) B'∩C' (D) B∩C 	 Let two fair six-faced dice A and B be thrown simultaneously. If E1 is the event that die A shows up four, E2 is the event that die B shows up two and E2 is the event that the sum of numbers on both dise 					
2. The value of the expression $3(\sin\theta - \cos\theta)^4 + 6(\sin\theta + \cos\theta)^2 + 4(\sin^6\theta + \cos^6\theta)$ is (A) 11 (B) 12 (C) 13 (D) 0	E3 is the event that the sum of numbers on both dice is odd, then which one of the following statements is not true ? (A) E1, E2 and E3 are independent (B) E1 and E3 are independent					
 3. Let S denotes the sum of the series 1+ 8/2! + 21/3! + 40/4! + 65/5! +, then (A) S < 8 (B) S > 12 (C) 8 < S < 12 (D) 12 < S < 16 	 (C) E2 and E3 are independent (D) E1 and E2 are independent 6. Rajan got married 8 years ago. His present age is 6/5 times his age at the time of his marriage. 					
4. In the given figure (not drawn to scale), a circle with centre O passes through A, B, C and D. PDOB is a straight line and PAT is a tangent to the circle. If $\angle AOB = 112^{\circ}$ and $AD = DC$, then find $\angle APO$ and $\angle ACB$ respectively.	Rajan's sister was 10 years younger to him at the time of his marriage. The present age of Rajan's sister is(A) 32 years(B) 36 years(C) 38 years(D) 40 years					
	7. $\lim_{n \to \infty} n(\sqrt{n^2 + 4} - n)$ is equal to (A) e (B) 1 (C) 2 (D) e^2					
P A T (A) 20°, 60° (B) 28°, 56° (C) 22°, 56° (D) 38°, 68°	 8. For a positively skewed distribution, mean is always (A) Less than the median (B) Less than the mode (C) Greater than the mode (D) Difficult to tell 					

ANSWERS								
(1) A	(2) C	(3) C	(4) C	(5) A	(6) C	(7) C	(8) C	



SYLLABUS 2023-24



SYLLABUS OF MATHEMATICS OLYMPIAD Relations and Functions : Sets, Types of Relations, Types of Functions, Binary Operations, Inverse Trigonometric functions Algebra : Matrices and Determinants Vectors & 3D : Vector algebra and Three dimensional geometry Calculus : Applications of Derivatives, Integrals, Definite Integrals, Application of Integrals, Differential Equation Linear programming : Linear Programming Problem Probability : Independent Events, Conditional Probability, Multiplication Theorem on Probability, Bayes' Theorem, Theorem of total Probability, Variables and Standard Deviation Reasoning and Aptitude : Reasoning and AptitudeCLASS LOW								
f(x) = log(x) is (A) {0} (C) { $-\infty,\infty$ } 2. The function f(x) = (A) Increasing function (C) Identity function 3. The value of c in L f(x) = log sinx in the (A) $\pi/3$ (C) $\pi/4$	tion (B) Decreasing function (D) Constant function agrange's theorem for the function e interval $[\pi/6,5\pi/6]$ is: (B) $\pi/2$ (D) None of these = 0.6, P(B/A) = 0.5, then P(A U B) = (B) 0.15 (D) 0.65	7.	(-3, 4, -5) is divisor (A) 5: 3 (C) 3: 2 The area bounder $y^2 = 4ax$ and $x^2 = 4ax$ $(A) 8a^2/3$ $(C) 8a^3$ $\int log(x + \sqrt{x^2} + a^2)$ $(A) xlog(x + \sqrt{x^2} + a^2)$	4ay is (B) $16a^2/3$ (D) None of these dx is equal to $a^2 + \sqrt{x^2 + a^2 + c}$ $a^2 - 2\sqrt{x^2 + a^2 + c}$ $a^2 - \sqrt{x^2 + a^2 + c}$				

ANSWERS								
(1) A	(2) B	(3) B	(4) C	(5) D	(6) D	(7) B	(8) C	