





Total Questions : 50				Time : 1 hr.					
PATTERN & MARKING SCHEME									
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section					
No. of Questions	15	20	10	5					
Marks per Ques.	1	1	1	3					

SYLLABUS

Section – 1: Verbal and Non-Verbal Reasoning.

Section – 2: Real Numbers, Polynomials, Pair of Linear Equations in Two Variables, Quadratic Equations, Arithmetic Progressions, Triangles, Coordinate Geometry, Introduction to Trigonometry, Some Applications of Trigonometry, Circles, Areas Related to Circles, Surface Areas and Volumes, Statistics, Probability.

Section – 3 : The syllabus of this section will be based on the syllabus of Mathematical Reasoning and Quantitative Aptitude.

Section - 4: Higher Order Thinking Questions - Syllabus as per Section - 2.



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5.			A 210° Q B P
6.	The angles of depression of two consec right and left of an aeroplane are 60° and aeroplane. Find the height of the aeropla (A) 0.634 km (B) 1.682 km (d 45°, respectively a	as observed from the
	EVERYDAY MAT	THEMATICS	
7.		he first train travels	s 5 km/hr faster than hen find the average /hr
8.	 A design on a floor is made up of triangul 24 cm, 32 cm and 40 cm. Find the cost of the rate of ₹ 1.50 per cm². (A) ₹ 97920 (B) ₹ 65280 		
	ACHIEVERS S	SECTION	
9.	Solve the following questions and select (i) If $\frac{\cos \alpha}{\cos \beta} = m$ and $\frac{\cos \alpha}{\sin \beta} = n$, then $(m^2 + 1)^2$ (ii) If $\csc A = 2$, then the value of $\frac{1}{\tan A}$	+ n^2) cos α cos β cot	β is equal to
	(A) (i) - n^3 ; (ii) - $\sqrt{2} - 1$ (ii)	B) (i) - <i>n</i> ; (ii) - 2 D) (i) - <i>n</i> ²; (ii) - √3 +	
10	0. Read the given statements carefully and Statement-I : If the quadratic equation perfect square, then the values of <i>k</i> are C Statement-II : If α , β are the roots of the equation whose roots are $\frac{1}{\alpha}$ and $\frac{1}{\beta}$ is 4. (A) Both Statement-I and Statement-II are (B) Both Statement-I and Statement-II are (C) Statement-I is true but Statement-II is fully (D) Statement-I is false but Statement-II is false but Stateme	$(4 - k)x^{2} + (2k + 4)$ o and 3. e equation $25x^{2} + 2$ $x^{2} + 20x + 25 = 0$. true. false. false.	(x + (8k + 1)) = 0 is a

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

2