ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

PERIODIC TEST – I SESSION 2025 – 26 CLASS – IX

TIME : 1 hr. : 30 min.		SUBJECT - MATHEMATICS	M.M = 40
General Instructions: (a) Section A comprises 5 questions of 1 mark each. (b) Section B comprises 4 questions of 2 marks each. (c) Section C comprises 4 questions of 3 marks each. (d) Section D comprises 2 questions of 5 marks each. (e) Section E comprises 1 case based questions of 5 marks. SECTION – A			
1. A number is an irrational	if and only if	f it's decimal representation is	
(a) non terminating		(b) non terminating non repeating	
(c) non terminating repe		(d) terminating	
2. $\sqrt{32} \div \sqrt{2}$ is equal to	(b) 4	(a) 1/	(4) 16
(a) $\sqrt{30}$ (b) 4 3. The Degree of the zero polynomial is		(c) 1/4	(d) 16
(a) 0	(b) 1	 (c) any natural number	(d) not defined
4. The coefficient of x² in the	e polynomia	1 (2–3x²)(x²–5) is .	(4) 1101 40111104
(a) –17	(b) –10	(c) –3	(d) 17
5. The value of abscissa in	(6.–6) is		
(a) -6	(b) 6	(c) 1/6	(d) 6/7
. ,	, ,	SECTION – B	. ,
6. Define rational and irration 7. Factorise: $3x^2 - x - 4$	onal numbers	s with one example of each.	
8. Evaluate by using an app	oropriate ide	ntity: (99)².	
9. Find an irrational number			
	7	SECTION – C	
10. Locate $\sqrt{3}$ on the number line.			
11. Write the quadrant in which the following points lie:			
(3,-5) , $(6,2)$, $(2,-2)$, $(4,-2)$		· .	
12. Factorise: $9x^2 + 6xy + y^2$			

13. Write four solutions of the equation 3x+2y = 10.

SECTION - D

- **14.** Verify that $x^3-y^3=(x-y)(x^2+xy+y^2)$. Also factorise $64m^3-125n^3$
- **15.** Find the values of a and b in the following:

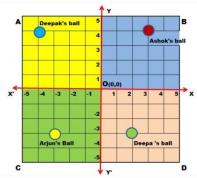
$$\frac{3 - \sqrt{5}}{3 + 2\sqrt{5}} = a\sqrt{5} - \frac{19}{11}b$$

OR

Represent $\sqrt{9.3}$ on the number line.

SECTION - E

16. There is a square park ABCD in the middle of a Saket colony in Delhi. Four children Deepak, Deepa, Ashok and Arjun went to play with their balls. All the four children roll their ball from centre point O in the direction of XOY, X'OY, X'OY' and XOY'. Their balls stopped as shown in the above image.



- (i) What are the coordinates of the balls of Ashok?
 - (a) (4,3)

(b)(3,4)

(c)(4,4)

(d)(3,3)

- (ii) What are the coordinates of the balls of Deepa?
 - (a) (2,-3)

(b)(3,2)

(c)(2,3)

(d)(2,2)

- (iii) What is the line XOX' called?
 - (a) y axis

(b) x axis

(c) ordinate

(d) origin

- (iv) What is the point O (0,0) called?
 - (a) y axis

(b) x axis

(c) ordinate

(d) origin