9TH CLASS KHYBER PAKHTOON KHAWA BOARD SCHEME – 2023 KHYBER PAKHTWAN KHAWA ALL BOARD 9TH CLASS MATHEMATICS

Q.1 Choose the correct option. Allowed time: 20 minutes

		Marks	15
S.NO	SLO'S	MCQ'S	QUESTION NO. PART
1.	Define and identify, identity matrix, scalar matrix,	MCQ'S	Q.1 (i)
	diagonal matrix, null matrix, and transpose of		
	matrix, symmetric and skew-symmetric matrix.	0700	
2.	Recall the set of real numbers as union of rational	MCQS	Q.1 (ii)
	and irrational numbers.	UD	
3.	Define conjugate of complex number	MCQ'S	Q. 1(iii)
4.	Define common logarithm characteristics and	MCQ'S	Q.1(iv)
	mantissa of a log number		_
5.	Define identify, identity matrix, scalar	MCQ'S	Q.1 (v)
	matrix, diagonal matrix, null matrix, transpose of		
	matrix, symmetric and skew-symmetric matrix		
6.	Know the properties of real number	MCQ'S	Q.1 (vi)
7.	Know the properties of real number	MCQ'S	Q.1 (vii)
8.	Apply the laws of exponent	MCQ'S	Q.1 (vii)
9.	Know the formula	MCQ'S	Q.1 (ix)
10.	Know the relationship between HCF and LCM	MCQ'S	Q.1 (x)
11.	Reduce equations involving radicals to simple	MCQ'S	Q.1 (xi)
	linear form to find their solution.		
12.	Recognize an ordered pair as a point in	MCQ'S	Q.1 (xii)
	rectangular plane		
13.	Know the properties of real number.	MCQ'S	Q.1 (xiii)
14.	Factorize the expression	MCQ'S	Q. 1(xiv)

SECTION - B

MCO'S

Q.1 Attempt any any 9 of the following

Evaluate the determinant of a matrix

Allowed time 2 hours 40 minutes
Maximum Marks: 36

O.1(xv)

PRO'S (SHORT OUESTIONS)

15.

S.NO	SLO'S	PRQ'S	QUESTION NO. PART
1.	Verify commutative law under addition in	Sec- B	Q.1(i)
	matrices.		
2.	Know the formula	Sec- B	Q.1(ii)
3.	Factorize the expressions of the type.	Sec- B	Q.1(iii)
4.	Carry out basic operation addition, subtraction,	Sec- B	Q.1(iv)
	multiplication and division on complex numbers		
5.	Use basic operations on surds of second order to	Sec- B	Q.1(v)
	rationalize the denominator and evaluate it.	WS.COM	2
6.	Find the HCF and LCM of algebraic expressions	Sec – B	Q.1(vi)
7.	Solve linear equations with rational coefficients.	Sec – B	Q.1(vii)
8.	Solve linear equations with rational coefficients.	Sec – B	Q.1(viii)
9.	Use distance formula to show that the given three	Sec – B	Q.1(ix)
	non-collinear points form: A scalene triangle		
10.	Prove laws of logarithm	Sec – B	Q.1(x)
11.	If two angles of a triangle are congruent than the	Sec – B	Q.1(xi)
	sides opposite to them are also congruent		
12.	Prove that each diagonal of parallelogram divides	Sec – B	Q.1(xii)
	it into two congruent triangles.	7776-	
	it into two congruent triangles.	MSI.CO.	

Maximum Marks: 24

	pt any 4 of the following.	TAS.COM	
	pt any 4 of the following. G QUESTIONS.		Maximum Marks: 24
S.NO	SLO's	PRQ'S	QUESTION NO. PART
1.	The bisectors of angles of triangles are concurrent	Sec – C	Q. 2
2.	The sum of length of any two sides of triangle is greater than the length of third side.	Sec – C	Q. 3
3.	If a line segment intersects the two sides of triangle in the same ratio then it is parallel to third side.	Sec – C	Q. 4
4.	In a right angle triangle the square of length of hypotenuse is equal to the sum of square of length of the other two side	Sec - C	Q. 5
5.	Construct a triangle having given two sides and the included angle	Sec – C	.Q. 6
6.	Parallelogram on the same base and line between the same parallel line(or of the same altitude) are equal in area	Sec – C	Q. 7







