9th CLASS GUESS PAPER – 2022.

MATHEMATICS

UNIT NO. 1 MATRICES AND DETERMINANTS.

SHORT QUESTIONS.

1. Define square matrix.
2. Define Scalar Matrix and give an example.
3. Define symmetric matrix.

EXERCISE No. 1.2: Q.5 (c) , (e), Q.6 (i) ,(ii)
EXERCISE No. 1.3: Q.2 (f). Q.3 (vii), Q.4 (iv),Q.5 (vii,ix,x) Q.6, Q. 7, Q.8
EXERCISE No. 1.4: Q. 4: (b) , (d) , Q. 2 , Q.3 (i, ii, v) Q.4 (a), (b), (d) Q.5 (iv) , Q.6 (ii)
EXERCISE No. 1.5: Q.1: (ii, iv) , Q.2 (iv)
EXERCISE No. 1.6: Q.1: (ii,iv,v,vi,vii,viii), Q.3, Q.4, Q.5

UNIT NO. 2 REAL AND COMPLEX NUMBERS.

SHORT QUESTIONS.

1. What are irrational numbers?

EXERCISE NO. 2.1: Q.5 , Q.6 Example . 2
EXERCISE NO. 2.3: Q.3 (i, iii, iv) Example 2
EXERCISE NO.2.4: Q.1 (i,iv), Q.2 Q.3 (i) , (ii),(iii),(iv)
EXERCISE NO.2.5: Q.1 (ii, iii, v, vi) . Q. 2 (iii,v), Q.3 (v), Q.4 (v,vi), Q.5 (iv), Q.6 (v,vi), Q.7 (ii)
SUMMARY: Q. 6

UNIT NO. 3 LOGARITHMS.

SHORT QUESTIONS.

Define Scientific notation.
Write Common notation 5.06×10^{10}.

EXERCISE NO. 3.1: Q.1 (vii, ix, x) Q.2 (i , ii, iii, iv). Q.2 (i,ii,iii,iv)
EXERCISE NO. 3.2: Q.2 (iii,iv) Q.4 (ii,iv), Q.5 (i,ii) Q. 6 (iii), (iv)
EXERCISE NO. 3.3: Q.1 (vi), Q.2 , Q. 3 (ii,iii,iv), Q.4 (i), Q.5 (ii)
EXERCISE NO. 3.4: Q.1 (i,ii,iv,vi, vii, viii), Q.2, Q.3 (iv), Q.4 (ii,iv) Q.5 (iii) Q.6 (iii)

UNIT NO. 4 ALGEBRAIC EXPRESSIONS AND ALGEBRAIC FORMULAS.

SHORT QUESTIONS.

EXERCISE NO. 4.1: Q.3 (iv,vii,viii), Q. 4 (I , ii, iv) Q.5 (iv,v,vi) Q.6 (ii, iii,v)- Example No. 3
EXERCISE NO. 4.2: Q.1 (ii), Q.3 TO Q.9 and Q. 11 , Q.14.Q.15 (ii,iii)
EXERCISE NO. 4.3: Q.2 (i, ii,iii, vi)
EXERCISE NO. 4.4: Q.1 (vi,viii) Q.2 (vii), Q.3 (i,ii), Q.4 (I,iii), Q.5 (ii),Q.6

UNIT NO. 5 FACTORIZATION.

SHORT QUESTIONS.

EXERCISE NO. 5.1: Q.1,(v,vi), Q.2 (iv), Q.3 (iii), Q.4 (ii,iii, iv), Q.5 (iv,v, vi)
EXERCISE NO. 5.2: Q.1 (iv,v), Q.2. Q.3 (ii), Q.5, Q.6 (i,ii,iii), Q.7
EXERCISE NO. 5.4: Q.1 (5,8), Q.3 (I,vii,viii,ix), Q.7

UNIT NO. 6 ALGEBRAIC MULTIPLICATION.

SHORT QUESTIONS.

EXERCISE NO. 6.1: Q.2 (i , iv, v), Q. 3 (I , ii, iii) , Q.4 (ii), Q. 5 (i, ii), Q. 6, Q.7, Q.8, Q. 10, Q. 11

EXERCISE NO. 6.2: Q.3,Q.6, Q.8,Q.9, Q.11, Q.12, Q.13 example 2, 3

EXERCISE NO. 6.3: Q.1(vii,ix) Q.2 (v) Q.3 (i) , Q. 4 (ii), Q.5,Q.6,Q.7, Q.8 –Example -3

UNIT NO. 7 LINEAR EQUATIONS AND INEQUALITIES.

SHORT QUESTIONS.

EXERCISE NO. 7.1: Q.1 (ii,iii,iv,v,vi,vii,viii), Q.2 (i, ii, iii,vi, viii)

EXERCISE NO. 7.2: Q.2 (iv, v,vii,viii)

EXERCISE NO. 7.3: Q.1 (i , ii, iv, vii, viii) , Q. 5 (ii), Q. 6 (iii)

UNIT NO. 8 LINEAR GRAPHICS AND THEIR APPLICATION.

SHORT QUESTIONS.

EXERCISE NO. 8.1: Q.3 (v), Q. 4 (a), Q.5 (ii,iii,iv,v)

EXERCISE NO. 8.2: Q.2, Q.3 (b), Q. 4 (i , iii)

EXERCISE NO. 8.3: Q.3,Q.5 (i) , Q. 6 (iii)

UNIT NO. 9 INTRODUCTION TO CORDINATE GEOMETRY DESCRIPTIVE GEOMETRY.

SHORT QUESTIONS.

Define Equilateral triangle, An Isosceles triangle, Right Angel triangle.

EXERCISE NO. 9.1 Q. 1 (c, d) , Q. 2 (v)

EXERCISE NO. 9.2: Q.3,Q.5,Q.7,Q.8, Q.9, Q.10

EXERCISE NO. 9.3: Q.1 (d,e,f) , Q. 3, Q. 4, Q. 5

UNIT NO. 11 PARALLELOGRAMS AND TRIANGLES.

Q. 1, 11, 5, Q. 3, Q. 4, Q. 5

UNIT NO. 12. LINE BISECTORA AND ANGLE BISECTORS.

SHORT QUESTIONS.

COMPLETE

UNIT NO. 17 PRACTICAL GEOMETRY – TRIANGLES.

SHORT QUESTIONS.

Define Centroid, Define The point of concurrency.

EXERCISE NO. 17.1: Q.1 (iii ,iv), Q. 2 (i ,ii), Q. 3 , Q. 4 (i), Q.5 (ii)

EXERCISE NO. 17.2: Q.1 (i, ii,iii), Q.2 (i,ii, iii), Q. 3 (iii), Q. 4 (ii)

EXERCISE NO. 17.3: Q.3, Q. 4

EXERCISE NO. 17.4: Q.3

EXERCISE NO. 17.8: Q.2, Q.4, Q.6