Syllabus Indicator and Exam Portion

Subject: Mathematics CBSE – 2023-24 **Grade: X**

Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 80 Duration: 3 hours
1	Real Numbers	▪ 1.1 Introduction ▪ 1.2 The Fundamental Theorem of Arithmetic ▪ 1.3 Revisiting Irrational Numbers	▪ 1.1 Introduction ▪ 1.2 The Fundamental Theorem of Arithmetic ▪ 1.3 Revisiting Irrational Numbers
2	Polynomials	▪ 2.1 Introduction ▪ 2.2 Geometrical Meaning of the Zeroes of a Polynomial ▪ 2.3 Relationship between Zeroes and Coefficients of a Polynomial	▪ 2.1 Introduction ▪ 2.2 Geometrical Meaning of the Zeroes of a Polynomial ▪ 2.3 Relationship between Zeroes and Coefficients of a Polynomial

3	Pair of Linear Equations in Two Variables	▪ 3.1 Introduction
		▪ 3.2 Graphical Method of Solution of a Pair of Linear Equations
		▪ 3.3 Algebraic Methods of Solving a Pair of Linear Equations
		  ○ 3.3.1 Substitution Method
		  ○ 3.3.2 Elimination Method
			▪ 3.1 Introduction
			▪ 3.2 Graphical Method of Solution of a Pair of Linear Equations
			▪ 3.3 Algebraic Methods of Solving a Pair of Linear Equations
			  ○ 3.3.1 Substitution Method
			  ○ 3.3.2 Elimination Method

6	Triangles	▪ 6.1 Introduction ▪ 6.2 Similar Figures ▪ 6.3 Similarity of Triangles ▪ 6.4 Criteria for Similarity of Triangles	▪ 6.1 Introduction ▪ 6.2 Similar Figures ▪ 6.3 Similarity of Triangles ▪ 6.4 Criteria for Similarity of Triangles

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<table>
<tr><td colspan="4" align="center">PHASE 2</td></tr>
<tr><td>Ch. No.</td><td>Chapter Name</td><td align="center">Subtopics</td><td align="center">PT2 portion</td></tr>
<tr><td></td><td></td><td></td><td>Total Marks: 80   Duration: 3 hours</td></tr>
<tr><td></td><td></td><td></td><td>PT1 portion is included</td></tr>
<tr>
<td>4</td>
<td>Quadratic Equations</td>
<td>
▪ 4.1 Introduction
▪ 4.2 Quadratic Equations
▪ 4.3 Solution of a Quadratic Equation by Factorisation
▪ 4.4 Nature of Roots
</td>
<td>
▪ 4.1 Introduction
▪ 4.2 Quadratic Equations
▪ 4.3 Solution of a Quadratic Equation by Factorisation
▪ 4.4 Nature of Roots
</td>
</tr>
<tr>
<td>8</td>
<td>Introduction to Trigonometry</td>
<td>
▪ 8.1 Introduction
▪ 8.2 Trigonometric Ratios
▪ 8.3 Trigonometric Ratios of Some Specific Angles
▪ 8.4 Trigonometric Identities
</td>
<td>
▪ 8.1 Introduction
▪ 8.2 Trigonometric Ratios
▪ 8.3 Trigonometric Ratios of Some Specific Angles
▪ 8.4 Trigonometric Identities
</td>
</tr>
<tr>
<td>10</td>
<td>Circles</td>
<td>
▪ 10.1 Introduction
▪ 10.2 Tangent to a Circle
▪ 10.3 Number of Tangents from a Point on a Circle
</td>
<td>
▪ 10.1 Introduction
▪ 10.2 Tangent to a Circle
▪ 10.3 Number of Tangents from a Point on a Circle
</td>
</tr>
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Subject: Mathematics   **CBSE – 2023-24**   **Grade: X**

Ch. No.	Chapter Name	Subtopics	PT3 portion
			Total Marks: 80 **Duration: 3 hours**
			PT1 and PT2 portions are included
5	Arithmetic Progressions	▪ 5.1 Introduction ▪ 5.2 Arithmetic Progressions ▪ 5.3 nth Term of an AP ▪ 5.4 Sum of First n Terms of an AP	▪ 5.1 Introduction ▪ 5.2 Arithmetic Progressions ▪ 5.3 nth Term of an AP ▪ 5.4 Sum of First n Terms of an AP
9	Some Applications of Trigonometry	▪ 9.1 Heights and Distances	▪ 9.1 Heights and Distances
11	Area Related to Circles	▪ 11.1 Areas of Sector and Segment of a Circle	▪ 11.1 Areas of Sector and Segment of a Circle
12	Surface Areas and Volumes	▪ 12.1 Introduction ▪ 12.2 Surface Area of a Combination of Solids ▪ 12.3 Volume of a Combination of Solids	▪ 12.1 Introduction ▪ 12.2 Surface Area of a Combination of Solids ▪ 12.3 Volume of a Combination of Solids
14	Probability	▪ 14.1 Probability — A Theoretical Approach	▪ 14.1 Probability — A Theoretical Approach

The header row "PHASE 3" spans across the table.

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Syllabus Indicator and Exam Portion

Subject: Mathematics   **CBSE – 2023-24**   **Grade: X**

Ch. No.	Chapter Name	Subtopics	Pre-Board portion
		PHASE 4	
			Total Marks: 80 **Duration: 3 hours**
			PT1, PT2 and PT3 portions are included
7	Coordinate Geometry	▪ 7.1 Introduction ▪ 7.2 Distance Formula ▪ 7.3 Section Formula	▪ 7.1 Introduction ▪ 7.2 Distance Formula ▪ 7.3 Section Formula
13	Statistics	▪ 13.1 Introduction ▪ 13.2 Mean of Grouped Data ▪ 13.3 Mode of Grouped Data ▪ 13.4 Median of Grouped Data	▪ 13.1 Introduction ▪ 13.2 Mean of Grouped Data ▪ 13.3 Mode of Grouped Data ▪ 13.4 Median of Grouped Data

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