Smart Syllabus / Accelerated Learning Programme (ALP)
Mathematics Grade-10
for Academic Session 2026-27 & BISE Exam-2027

Name of the Unit	Excluded Content & Questions of Mathematics-10
1 Complex Numbers	• 1.3.3 Properties of Complex Conjugate (Properties 1 to 4 with proofs), Examples 11 to 14; Pages # 11 to 13. • 1.4.1 Properties of Modulus of a Complex Number (Properties 1 to 3 with proofs), Examples 15 & 16; Pages # 14 to 16. • Exercise # 1.3: Q # 2, 3 & 4; Page # 16. • 1.6 Solution of Simultaneous Linear Equations with Complex Coefficients, Example 21; Page # 19. • Exercise # 1.4: Q # 2 (Complete); Page # 20. • Review Exercise # 1: Q # 5 & 8; Page # 21.
2 Quadratic Equations and Inequalities	• 2.1.1 (d) Solution of quadratic equation by graphs, Example 5. Pages # 27 to 28. • Exercise # 2.1: Q # 5 page # 29 • 2.2.3 Finding Points of Intersection of a Linear Function and a Quadratic Function Graphically, Example 8; Page # 31. • Exercise # 2.2: Q # 3; Page # 32. • Examples # 12 & 13; Pages # 35 to 36. • Exercise # 2.3: Q # 4, 8 & 9; Page # 36. • 2.5 Solution of Quadratic Inequalities in One Unknown, Examples 16 & 17; Pages # 39 to 41. • Exercise # 2.5 (Complete); Page # 41. • 2.7 Applications of Quadratic Equation in Real World, Examples 19 to 21; Pages # 43 to 45. • Exercise # 2.7 (Complete); Page # 45.
3 Matrices and Determinants	• 3.4.2 Associative Law of Multiplication of Matrices and 3.4.3 Distributive Laws of Multiplication over Addition and Subtraction; Pages # 62 to 64. • Exercise # 3.4: Q # 2 (ii, iii & v); Page # 65. • Challenge ($(AB)^{-1} = B^{-1}A^{-1}$); Page # 67. • Exercise # 3.5: Q # 8; Page # 70. • 3.7 Applications of Matrices in Real World Problems, Examples 12 & 13; Pages # 75 to 77. • 3.8 The Role of Mathematics in Scientific Theories and Technological Advancement; Page # 77. • Exercise # 3.6: Q # 3 to 9; Pages # 78 to 79. • Review Exercise # 3: Q # 3 (iii, iv, v & viii), Q # 6, 7 & 8; Page # 80.

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4 **Functions and Graphs**	• 4.5 Solving Real life Problems Involving Function, Example # 15, 16; Pages # 92, 93. • 4.6 Solving Real life Problems Involving absolute Valued Function, Examples 17 to 18; Page # 93. • Exercise # 4.3: Complete; Page # 94 • Review Exercise # 4: Q # 9 to 11; Page # 96.
5 **Algebraic Fractions**	• 5.3 Type (ii) Exponential Equations, Type (iii) Reciprocal Equations and Type (iv) $(x + a)(x + b)(x + c)(x + d) = k$, Examples 11 to 13; Pages # 103 to 106. • Exercise # 5.4: Q # 1 (iv to xii); Pages # 106 to 107. • 5.4 Real World Problems Example # 14 &15; Pages # 107 to 108. • Exercise # 5.5 (Complete); Pages # 108 to 109. • Review Exercise # 5: Q # 1 (vii, viii), Q # 4 (iii to vii), Q# 5, 6 & 7; Page # 110.
6 **Vectors in Plane**	• 6.6 Translation by vector: Example 9; Pages 119 to 120. • 6.7 Solution and Application of Geometric Problems Involving Vectors, Examples 10 to 13; Pages # 120 to 122. • Exercise # 6.3: (Complete); Pages # 122 to 123. • Review Exercise # 6: Q # 1 (vii), Q # 6, 7, 8, 9 & 10; Page # 124.
7 **Trigonometry**	• 7.3 Solve Simple Trigonometric Problems in Three Dimensions, Examples 8 & 9; Pages # 134 to 135. • Exercise # 7.3: Q # 1 to 5; Pages # 136 to 137. • 7.5 Three Figure Bearing — Example12, 13 & 14; Pages # 138 to 139. • Exercise # 7.4: (Complete); Page # 139, 140. • Review Exercise # 7: Q # 1 (ix, x), Q # 4, 5, 6 & 7; Page # 142.
8 **Chords and Arcs of a Circle**	• 8.1.6 to 8.1.9 Theorems on Congruent Arcs, Chords and Central Angles, Examples 8 to 11; Pages # 151 to 152. • Exercise # 8.2 (Complete); Page # 153. • Review Exercise # 8: Q # 4 to 8; Page # 154.
9 **Tangent and Angles of a Circle**	• Exercise # 9.1: Q # 4, 5, 9 & 10; Pages # 160. • Exercise # 9.2: Q # 4, 5, 6 & 7; Page # 165. • Review Exercise # 9: Q # 4, 5, 6 & 7; Pages # 166 to 167.
10 **Practical Geometry of Circles**	• 10.1.4 Complete a Circle without Finding its Centre when a part of its circumference (Arc) is given; Pages # 170 to 171. • Exercise # 10.1: Q # 4 & 7; Page # 171. • Exercise # 10.2: Q # 1, 2, 3 & 4; Page # 174. • Review Exercise # 10: Q # 5 & 6; Page # 175.

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11 Information Handling	• 11.1.1 Cumulative Frequency Polygon or Ogive and 11.1.2 Steps for Construction of Ogive; Page # 178. • Examples # 2 & 3; Pages # 179 to 181. • Exercise # 11.1: Q # 1, 2, 3, 5, 8 & 9; Page # 186 to 187. • Variance and Standard Deviation for Grouped Data, Example 11; Pages # 191. • Exercise # 11.2: Q # 6, 7& 10 and Q # 13 (ii & iii); Pages # 193 to 194. • Review Exercise # 11: Q # 2, 4, 6 & 9; Pages # 194 to 195.
12 Probability	• 12.2 (i) Addition Law for Non-Mutually Exclusive Events, Examples 8 & 10; Pages # 205 to 207. • Exercise # 12.2: Q # 1, 2, 7, 9, 13 & 14; Pages # 207 to 208. • 12.3 Multiplication Law of Probability (Independent Events, Dependent Events and Conditional Probability), Examples 11 to 13; Pages # 208 to 209. • Exercise # 12.3 (Complete); Page # 210. • Review Exercise # 12: Q # 3, 4, 5 & 6; Page # 211.