Syllabus-EAID CAA Placement Test
Mathematics-Set 1

Topics:		
	Sets & Functions	
1	• Sets: Introduction to Sets, Operations on sets (The difference between two sets). • Functions: Domain of polynomial and rational functions, the value of polynomial function (at specific point), and the composite function • Limits of rational function at Infinity. • Derivative of Natural Logarithm • Determine acceleration from the derivative for Polynomial function.	
	Algebra	
2	• Convert a complex numbers to polar coordinates • Algebraic solutions of linear inequalities in one variable • Solving the system of equations in two variables • Operation for matrices (2×2) (adding, subtracting, and multiplication) • Solution of linear equation in one variable • Simplify and expand the equations • Arithmetic sequence • Functions of General Angles.	
	Analytical Geometry	
3	• Circles (Center the origin and radius) • Parabolas ($y = x^2$ and $x = y^2$) determine the vertex and symmetric axis. • The slope of a line, • Distance between two points.	
	Calculus- Integration	
4	• Polynomial function. • Trigonometric functions Sine and Cosine.	
	Probability and Statistics	
5	• Mean and Range from ungrouped data • Introduction to Probability (a single throw with two uniform dice).	