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## **School of Liberal Education**

Bachelor of Arts Honours in Economics Mid Term Examination - Nov 2023

**Duration : 90 Minutes Max Marks : 50** 

## Sem III - K1UB302T - Basic Mathematics

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

1)	Find the intersection of sets X = {a, b, c} and Y = {b, c, d}.						
2)	Graph the linear equation $y = 2x - 3$ .						
3)	Solve the equation $4(x - 2) = 24$ for x.						
4)	Simplify the expression $2(a + 3) - 5$ when $a = 7$ .						
5)	Write a linear equation to represent the statement: "Twice a number increased by 5 is 15."						
6)	Define a limit in calculus and provide the notation used to represent it.						
7)	List a "linear equation" and give an example.						
8)	Graph and give the interval notation equivalent for X<-1, and Y<3	K4 (12)					
OR							
	Analyse the the quadratic equation $y = x^2 - 4x + 4$ and present it graphically.	K4 (12)					