



**United International University (UIU)**

Dept. of Computer Science & Engineering (CSE)

Computer Architecture -Class Test-2

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1.	Use optimized multiplication algorithm to multiply a number Y by X. Where X is (last three digit of your Student ID % 15 +1) and Y is 13. Now use 4 bit architecture to design a simulator for this multiplication.	[1+1+4]
2.	Assume there is only maximum of 8 bit registers available in your processor. Now design the <b>Hardware Diagram</b> for this optimized multiplication algorithm.	[1+3]