

## LIST OF EXPERIMENTS

**Course Name :** COMPUTER ORGANIZATION AND ARCHITECTURE

**Course Code :** 18CS203J

Expt 1,2: <https://itexamanswers.net/virtual-activity-desktop-v4-1-online-courseware-free-download.html>

Expt 3,4,5: emu 8086

Expt: 6-12: Logic gate simulator

Experiment No.	Title of the Experiment	Simulators
1	Exploring Components of Virtual Desktop	Virtual Desktop Simulator
2	Assembling and Disassembling of Virtual Desktop	
3	8086 Simulator [8-bit] (Immediate, Direct Addressing Mode)	8086 Simulator
4	16-bit Addition and Subtraction	
5	Multiplication of 8-bit numbers and Factorial	
6	Half Adder, Full Adder	Logic Gate Simulator
7	Ripple Carry Adder	
8	Carry Look Ahead Adder	
9	Design of Array Multiplier / Binary Multiplier (2-bit multiplier)	
10	Carry Save Multiplier	
11	Multiplexer (4:1 multiplexer, 8:1 and 16:1 Multiplexer)	

12	Arithmetic Logic Unit (Addition and subtraction arithmetic operations and AND, OR, XOR logical operations)	
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