17/12/10/15

McA sem I (Chrice Bared)

Conf. organization & Azw. COA)

QP CODE: 750901

[Total Marks: 80

(3 Hours)

N.B.: 1) Question No.1 is compulsory.

2) Attempt any three from the remaining five questions.

3) Draw suitable diagrams wherever required

Q.1	A	What is system bus. Explain with suitable diagram	05
	В	Explain Multicore computer organization	05
	С	Compare sequential circuits and combinational circuits	05
	D	Define flip-flop. Explain the working of J-K FF with logic diagram.	05
Q.2	A	Explain six stage instruction pipelining with suitable diagram	10
	В	Explain Program I/O, Interrupt I/O and DMA techniques	10
Q.3	Α	Draw & Explain Flynn's classification of parallel processing	10
	В	Design a combinational logic circuit whose output is HIGH when input is >9.assume that input to the circuit is 4 bit binary A3A2A1A0.	10
Q.4	A	What is RAID? Explain any three levels with suitable diagrams	10
	В	Explain RISC & CISC architectures	10
Q.5	A	Explain in detail about the different superscalar instruction issue policies	10
	В	Explain SRAM and DRAM organizations with suitable diagrams	10
Q.6	Write short notes on (any four)		20
	А	4:1 MUX	-
	В	Flash Memory	
	G	Register Organization	
90	D	Functions of I/O module	
	E	Instruction formats	