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**MCA/ MCC 202** 

## 2nd Semester Regular/Back Examination – 2016 COMPUTER ORGANIZATION AND SYSTEM ARCHITECTURE QUESTION CODE: W 349

BRANCH: MCA Time: 3 Hours Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

Q1	a)	Write brief notes on following terms: ARM	(2 x 10)				
102	b) c) d) e) f) g) h)	RISC 102 102 102 102 102 102 102 102 102 102	10				
102	i) j)	MIPS 102 102 102 102 102	10				
Q2	a) b)	With a suitable diagram explain the Von Neumann Architecture. With a suitable diagram explain PCI Bus Structure.	(5) (5)				
Q3	a) b)						
Q4.		Discuss the various addressing modes available in a computer System and their merit and demerits.	(10)				
Q5	a) b)	Discuss Flynn's Classification of Parallel Processing. With a suitable diagram explain how pipeline can improve performance of a computer system.	(5) (5)				
102 <b>Q6</b>	a) b)	Discuss the tradeoff between long vs short instruction formats.  Compare between Hardwired and Micro programmed Control Design.	(5) (5)				
Q7	a) b)	With a suitable example, explain 2's complement representation. Discuss briefly on Floating Point Number representation on a 32-bit memory. The largest and smallest numbers that can be represented.	(5) (5)				
Q8	a) b) c) d)	Discuss briefly on <b>any two</b> Virtual Memory Interrupt driven I/O DMA Associative Memory	(5 x 2)				