Day & Date	Semester	Subject Name	Time	Code	Marks
Wednesday 04/04/2018	III (Repeater)	Computer Organization and Architecture	02.30 PM to 05.00 PM	3103	75

Instructions: I)		0.52	Question no. 1 is compulsory.			
		II) III)	Attempt any 4 questions from Q.2 to Q. 8 Draw diagrams wherever necessary.			
			Dian diagrams wherever necessary.			
1.	Write	short n	otes on the following.			
a. Sy		Syster	ystem Bus			
	b.	Magnetic Tape				
2.	a.	Explai	in evolution of I/O Function.	7		
	b.	What	is the need of a replacement algorithm in cache design? Explain			
		variou	us techniques in brief.	8		
3.	а.	Draw	and explain basic instruction cycle.	7		
	b.		in the need of multiple bus hierarchies and discus mezzanine			
		archit	tecture.	8		
4.	a.	Expla	in the memory hierarchy with a suitable diagram.	7		
	b.	Defin	e Interrupt. Explain design issues in interrupt driven I/O	8		
5.	a.	What	is a mapping function? Explain Direct mapping.	7		
	b.	Expla	in various data transfer types considered during bus design.	8		
6.	a.	How	are errors detected in Hamming code using Venn diagram.	7		
	b.	Expla	in following terms - SISD, SIMD, MISD, MIMD.	8		
7.	a.	Expla	in generic model of an I/O Module.	7		
	b.	Discu	is DMA function .	8		
8.	a.	Write	e a note on - Random Access Memory.	7		
	b.	Diffe	rentiate between the following: RISC and CICS	8		