M.Sc.F.Y. (Electronics)(with Credits)-Regular-Semester 2012 (Old / CBCS Pattern) Sem II

ELE203 / PSCELET07-Core-7 - Paper-III : Computer Organisation and Interfacing

P. Pages: 2 Time: Three Hours			GUG/S/18/5737 Max. Marks : 80	
	Note	es: 1. All questions are compulsory and carry equal marks. 2. Draw neat and labelled diagram wherever necessary.		
1.	Eith	er		
	a)	Compare features of Pentium with power PC.	8	
	b)	Describe the structure of PCI bus.	8	
		OR		
	c)	Explain with a suitable diagram cache/main memory structures and explain operation.	cache read 8	
	d)	Discuss the structure of DMA module in computer organization.	8	
2.	Eith	Either		
	a)	Discuss the architecture of Reduced Instruction Set Computer (RISC).	8	
	b)	Give the comparison between RISC and CISC.	8	
		OR		
	c)	Explain superscalar technology and super pipelined organization.	8	
	d)	Explain the concept of pipelining.	8	
3.	Eith	er		
	a)	Draw and explain the functional block diagram of PC based data acquisition	system. 8	
	b)	Explain the structure of GPIB Interface.	8	
		OR		
	c)	What is USB? Explain the USB based interface system protocol.	8	
	d)	Explain importance of networking in data acquisition system. List different topologies used in LANs.	network 8	

4. Either

Describe the techniques of interfacing the standard parallel port. 8 a) Describe the various signals of 8 bit ISA bus. State its limitations. b) 8 OR Explain the salient features of the PCI bus. 8 c) What is USB? List the special features of it. 8 d) Explain firewire and InfiniBand in brief. 5. a) b) Explain the organization of pipelining. 4 Write a note on GPIB (IEEE-488) c) Explain the interfacing of parallel port. d)
