M. C. A. First Semester / PGDCS First Semester (New)

Computer Organization

lime: I	hree Hours	Max. Marks: 80
Note	 Due credit will be giv adequate dimensions. Assume suitable data w Illustrate your sketches. Use of pen Blue/Blac writing the answer book 	herever necessary. k ink/refill only for
1. a)	Explain in brief the concept system and its characteristic	of operating ss. 6
b)	Give the definition of speedu Amdahl's law.	ip and explain 7
	OR	
2. a)	Explain Computer Organization computer with IB	
b)	Draw processor block diagrathe processor and memory u	m and explain nit. 6
. a)	Explain in brief design of ALI combinational logic circuit be	U and draw ased ALU. 7

AE.	7.			ע.				Ċī.						
AE - 2318	a)	b)	a)	1			6)	a)	6)	a)			b)	
8	Merit and Demerit of VLIW with an suitable examples.	What are the different addressing modes explain each in brief.	types and elements of instruction set? Explain	OR	ii) Processor organization.iii) Register organization.	i)+ Stack based organization.	Describe the following terms	Describe arithmatic instruction, logical instruction, compare & test instruction	Explain IEEE 754 standard and its format.	Explain binary coded decimal and add BCD number od89 & od22.	OR CR	S and South and Street	Explain with example, integer division with	
	7	7	7 .			J	٦ ٧	a .	9	90		`	I	
AE-2318 3		10. a) What is scheduling? Describe different scheduling policies.	OR	b) Explain in brief the concept of RAM and ROM.	9. a) What is mean by secondary storage memory? Also, write down the concept of hard disk organization.	 b) Describe extracting parallelism with loop unrolling. 	ii) Complex addressing mode.	i) Simple addressing mode.	8. a) Explain.	OR	ii) Multi threaded processor.	i) Super scalar processor.	 b) Explain the following terms. 	
PT		1		id .	emory isk	Ą								

b)	Explain the following features in cache.	6
	i) Capacity.	
	ii) Line length.	
	iii) Associativity.	
11 . a)	Explain in brief the concept of process segmentation.	7
b)	Explain in brief the concept of SCSI bus.	6
	OR	
12. a)	Describe Direct Memory Access.	7
b)	Explain the following terms.	6
	i) Laser printer.	
	ii) Inkjet printer.	
	iii) Dot Matrix printer.	
