Con. 237-09.

Bsc (IT) sem-I.

Digited Computer. fundamental.

TT-1340

10

(3 Hours)

[Total Marks : 100

N.B	.: (1) Question No. 1 is compulsory.	
	(2	2) Attempt any four questions from Q. Nos. 2 to 7.	
1.	(a) (b)	Explain the hardware and programming model of 8085 microprocessor. Explain RAID memory in detail.	10 10
2.	(a) (b)	What is Stack? Explain PUSH and POP instructions in detail. Explani programmed I/o module and Interrupt Driven I/o module.	10 10
3.	(a)	What is Instruction Pipelining? Explain six-stage Instruction Pipelining with suitable Timing diagram.	10
	(b)	With suitable data flow diagrams explain Fetch Cycle, Interrupt Cycle and Indirect Cycle.	10
4.	(a)	Explain the Bus organization in case of 8085 microprocessor.	8
	(b)	What is multiprogramming? Define scheduling and explain its type. Define microprocessor.	10
5.	(a)	Explain with suitable diagram DMA module and its functions.	8
	(b)		12
6.	(a)	With suitable diagram explain Cache Memory and explain mapping techniques.	10
Ο.	(b)	Define Subroutine. Explain the differences between RET and CALL instructions.	10
7.	(a)	Explain the PCI BUS Arbitration in detail.	10
			40

(b) Define Operating System. Explain its functions in detail.