

Code	:	15CS32T
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Register	7. V			,
Number		 		

III Semester Diploma Examination, April/May-2018

COMPUTER ORGANIZATION

Time: 3 Hours]	[Max. Marks : 100
Note: (i) Answer any six full questions from Part – A. Each (ii) Answer any seven full questions from Part – B. I	
PART – A	
1. Define the following terms: (i) Bus (ii) MAR (iii) MDR (iv) PC (v) IR	5
 Describe the big-endian and little endian addressability. Explain the basic memory operations. 	5
4. Explain how a complete instruction is executed.	5
5. Write a note on vectored interrupts.	5
6. Explain the Double data rate SDRAM concept.	5
7. Explain the significance of cache memory.	5
8. Write a note on flash memory.	5
O Compare super scalar verses VI IW	5

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PART – B

10.	Explain with examples one-address, two-address and three-address instruction types	
11.	Illustrate with example indirect addressing.	10
12.	Explain multiple-bus organization.	10
13.	With block diagram explain complete processor.	10
14.	Describe the working of DMA.	10
15.	 (a) Explain the use of PCI bus in computer system. (b) Write a note on SCSI bus. 	5 5
16.	Describe types of ROM.	10
17.	Illustrate with diagram memory hierarchy with respect to sped, size and cost.	10
18.	Explain: (a) CISC scalar processor (b) RISC scalar processor	10
19.	Describe arithmetic, instruction and processor pipelining.	10