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BICS-022

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00226

June, 2016

BICS-022 : COMPUTER ARCHITECTURE

Time: 3 hours Maximum Marks: 70

Note: Attempt any seven questions. All questions carry equal marks.

- Convert the following arithmetic expressions 1. from reverse polish notation to infix polish notation:
- 10

- (a) ABCDE+*-/
- (b) A B C D E * /-+
- (c) ABCDEFG+*+*+*
- (d) ABC */D EF/+
- What are the problems faced by superscalar 2. architecture? How are these problems removed in VLIW architecture?

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7.	(a)	What is mapping? Name the various types	
		of mapping. Discuss direct mapping in brief.	5
	(b)	Write a short note on memory hierarchy.	5
8.		uss the problems faced by superscalar 10 tecture.	10
9.		t is Virtual Memory? Discuss the protection segmented virtual memory in the Pentium.	10
10.	Expla	ain any <i>two</i> of the following: 2×5 :	=10
	(a)	Multithreading	
	(b)	RISC and CISC	
	(c)	Multicore Architecture	