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B.Tech. - VIEP - ELECTRONICS AND **COMMUNICATION ENGINEERING** (BTECVI)

Term-End Examination

DO494 June, 2017

BIEL-025 : ADVANCED MICROPROCESSOR ARCHITECTURE

Time : 3 hours Maximum Marks : 70

Note: Attempt any seven questions. All questions carry equal marks. Missing data, if any, may be suitably assumed.

What is the function of a Control Unit ? Explain 1. in brief about the concept of Hardwired and Micro-Programmed Control Unit Design. 3+7

What do you understand by the term "Bus 2. Differentiate between Architecture" Uni-bus and Multi-bus architecture. 3+7

Explain the following terms : 5+5 3.

1

- Micro Operation (a)
- **Instruction Cycle** (b)

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4.		uss the addressing schemes used for gning an instruction set. Give examples in	
	each	case.	5+5
5.		erentiate between Centralized and ributed shared memory architectures.	10
6.	List consi	different types of models used in memory istency. What are the various crosscutting	
	issue	es in memory consistency ?	5+5
7.	Diffe	rentiate between the following :	10
	(a)	CISC and RISC scalar processors	
	(b)	Vector and Symbolic processors	
8.	Level	t do you understand by the term "Instruction Parallelism" ? How do we overcome data rds with dynamic scheduling ? Explain in	
9.	Explain the processes of the following : 5+5		5+5
	(a) (b)	Reducing Cache Misses	
	(0)	Reducing Hit Time	
10.	Write short notes on any <i>two</i> of the following : 2×5		
	(a)	Main Memory	
	(b)	VLIW Architecture	
	(c)	Multivector and SIMD Computers	

(d) Pipelining

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