Rol	ll No	Total Pages :
		BT-7/D-23 4742
		NCE COMPUTER ARCHITECTURE
		Paper-PE-CS-AIML-415A
Tin	ne Al	lowed: 3 Hours] [Maximum Marks: 75
Not	te :	Attempt five questions in all, selecting at least one question from each Unit. All questions carry equa marks.
T.	lo a	glest and Francisco Literature the Deale
1.	(a)	What is the need of Parallel computing?
bi 8	(b)	Explore the working process of parallel computing with proper diagram.
2.	(a)	Explain the Architecture and mechanism of Uniprocessor system.
T be	(b)	Discuss the performance evaluation of Multivector computers.
. 8		UNIT-II
3.0	(a)	Elaborate the types of dependencies in instruction level parallelism.
	(b)	Explain the Computational techniques that can be

used to explore thread level parallelism.

- 4. (a) What is program partitioning and scheduling in Computer architecture?
 - (b) What are different approaches for Hardware and Software parallelism?

UNIT-III

- 5. (a) Describe the different types of Parallel programming techniques. 7
- (b) Explain various ways to measure the performance of parallel algorithms.
- 6. (a) What is Vectorization? Define the Design of a vectorizing compiler.
 - (b) Compare the functionality of array processor and vector processors.

UNIT-IV

- 7. (a) Explore the basic structure of linear pipeline processor.
 - (b) Discuss the classification of Pipeline processor based
 on Pipeline configuration.

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8. What are different types of Pipeline design? How to implement the concept of Multiply and Divide pipeline design?
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