

(DCS / DIT 422)

B. Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Final Year)

COMPUTER SCIENCE

Paper - II : Advanced Computer Architecture

Time : 3 Hours

Maximum Marks : 75

Answer question No. 1 compulsory

(15)

Answer ONE question from each unit

(4 x 15 = 60)

1) Write short notes on :

- a) SIMD computer.
- b) Pipeline processing.
- c) Hierarchical bus systems.
- d) Cache Coherence.
- e) Compilers.

Unit - I

2) What is parallelism? What are the various conditions of parallelism.

OR

- 3) a) Compare and contrast static interconnection and dynamic interconnection networks.**
- b) What are the characteristics of SIMD computers?**

Unit - II

4) Briefly explain about linear pipeline processor.

OR

5) Discuss about the throughput and efficiency in linear pipeline processor.

Unit - III

6) Explain about multithreaded architectures.

OR

7) Discuss message passing mechanism in detail.

Unit - IV

8) List and explain parallel programming models with examples.

OR

9) Discuss the relation between parallel languages and compilers.

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