

Con. 5376-09.

M.E-I Sem - Comp
Parallel Computer Architecture.
 (3 Hours)

7/12/09
BB-6125

[Total Marks : 100

muadda.com

- N. B. :** (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** questions out of remaining **six** questions.

- | | | |
|----|---|----|
| 1. | (a). Discuss different parallel computer architectures. | 10 |
| | (b). Explain Virtual Memory using Segmentation Technique. | 10 |
| 2. | (a). Explain the principles of designing pipeline processor. | 10 |
| | (b). Write short notes on job sequencing and collision prevention. | 10 |
| 3. | (a). Explain various pipelined vector processing methods. | 10 |
| | (b). Discuss different vector optimization methods. muadda.com | 10 |
| 4. | (a). Explain the different SIMD Computer organizations. | 10 |
| | (b). Write Short notes on Shuffle Exchange and omega networks. | 10 |
| 5. | (a). Discuss different Data Flow machine Architectures | 10 |
| | (b). Discuss Data flow Graphs with examples. | 10 |
| 6. | (a). Explain different bus arbitration algorithms used in multiprocessor. | 10 |
| | (b). Discuss the Multicache problems and dynamic coherence check. | 10 |
| 7. | Write short notes on | 20 |
| | (a). I/O processors and I/O channels. | |
| | (b). Cache memory design aspects. | |
| | (c). Classification of Multiprocessors operating systems. | |

muadda.com
