**BTITO5**

**Fifth Semester B. Tech IT Engineering**

**Examination Aug/Sep-2015**

**Parallel Architecture and Computing**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Write a short note on Distributed Shared Memory (DSM).
2. Comment on the Multiple Instructions Single Data (MISD).
3. Write a short note on RPC service.
4. Briefly write about Non-Uniform Memory Access (NUMA) and its disadvantages.
5. Write in nutshell about HPF (High Performance Fortran).
6. What do you mean by Daemon Threads?
7. Enlist the main functions of Data Manager. Also define Data Dictionary.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Give an overview of the UMA Model.
2. Discuss the types of Dependence.
3. Critically evaluate the COMA Model.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Explain the VLSI Complexity Model.
2. Enumerate the Linear Diophantine Equations.
3. Write detail note on the Thread Management.