G 7017　　　　　　　　(Pages : 2)　　　　　Reg. No..................................

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B.TECH. DEGREE EXAMINATION, APRIL 2011

Eighth Semester

Branch : Computer Science and Engineering

HIGH PERFORMANCE COMPUTING (R)

(Regular/Supplementary)

Time : Three Hours　　　　　　　　　　　　　　　　　　Maximum : 100 Marks

Part A

Answer all the questions.
Each question carries 4 marks.

1. Explain Flynn's Classification.

2. What do you mean by parallel processing ? Explain.

3. Explain the classification of pipeline processors.

4. Explain instruction prefetch.

5. List the difference between static and dynamic network.

6. How do array processor achieve data routing and masking ?

7. Explain parallel synchronization mechanism in multiprocessor.

8. What are the software requirements for multiprocessor ?

9. Explain the working of Irvine data flow computer.

10. Explain the use of data flow graph.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. Briefly discuss the application of parallel processing in various fields.　　　(12 marks)

Or

12. With neat block diagram explain in detail about the various programmatic levels of parallel processing.

(12 marks)