

**2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**IV B.TECH II SEMESTER DEGREE EXAMINATIONS**  
**PARALLEL PROGRAMMING**  
**(COMPUTER SCIENCE ENGINEERING)**

APRIL/MAY 2006

TIME : 3 HOUR  
MARK : 80

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Answer any FIVE Questions All Questions carry equal marks

1. Write a short notes on
  - (a) Fork
  - (b) Join
2. (a) Distinguish between the parallel computer and parallel programming.  
(b) Distinguish between the multi-computer and multi-processor.
3. (a) Explain about Race Condition.  
(b) What is Scheduling?
4. Differentiate between Forward and Backward Data Dependency.
5. Explain the overhead with 8 processors.
6. What is traveling salesperson problem? Explain.
7. Derive the system efficiency when implementing Gaussian elimination with the strip partition and the cyclic partition. [D]
8. Explain the Control Structure in Fortran-77.

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