

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

Answer any FIVE Questions All Questions carry equal marks

1. Write a short notes on

(a) Fork

(b) Join

2. The following C-like parallel code is supposed to transpose a matrix

for all (i=0;i

for all(j=0;j

a[i][j]=a[j][i]

Explain why the code will not work. Rewrite the code so that it will work.

3. Explain Barrier using a centralized counter.

4. Describe about Block Scheduling.

5. Explain about the structure of Parallel Programs.

6. Write a parallel program to compute factorial of n? The number n may be odd or even but it is positive.

7. Explain Discrete Time Simulation.

8. Discuss about Fork-Join operations in Unix..

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