Code No: RR420504

Set No. 1

IV B.Tech II Semester Supplimentary Examinations, May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) Max Marks: 80

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks *****

1.	What are the parameters for increased computational speed? Explain.	[16]
2.	(a) What are the various techniques for loop splitting?(b) Explain about Spin Locks.	[8+8]
3.	Discuss about the Indirect Scheduling.	[16]
4.	Differentiate between Forward and Backward Data Dependency.	[16]
5.	Explain the overhead with 8 processors.	[16]
6.	Write a parallel program to compute factorial of n? The number n may be even but it is positive.	e odd or [16]
7.	Write a parallel program for summation of n-numbers (array).	[16]
8.	Write a structure of parallel program in Fortran-77.	[16]

Set No. 2 Code No: RR420504 IV B.Tech II Semester Supplimentary Examinations, May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) Time: 3 hours Max Marks: 80 Answer any FIVE Questions All Questions carry equal marks ***** 1. (a) What is Process and Processor? (b) Explain the Fork Join constructs with the help of suitable example. [6+10]2. Write Short notes on (a) Efficiency. (b) Speedup. [8+8]3. (a) Explain about Race Condition. (b) What is Scheduling? [10+6]4. What is Data Dependency? Mention various types of data dependencies. [16]5. Explain about the structure of Parallel Programs. [16]

- 6. Write a parallel program for sorting of n numbers. [16]
- 7. What is Discrete event? Explain. [16]
- 8. Explain the Control Structure in Fortran-77. [16]

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Set No. 3

IV B.Tech II Semester Supplimentary Examinations, May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) Max Marks: 80

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks *****

1.	Explain the fundamental techniques in parallel programming.	[16]
2.	What do you mean by Loop Splitting? Explain the importance of Loop Spli	tting. [16]
3.	(a) Discuss about in-out Barrier Calls.	
	(b) What are the applications of Loop Splitting?	[8+8]
4.	Explain Backward Dependency with example.	[16]
5.	(a) What is Overhead?	
	(b) Explain the overhead with n number of processors. The number n is pos-	sitive. 4+12]
6.	Write a parallel program for average of n numbers.	[16]
7.	What is Discrete event? Explain.	[16]
8.	Explain the Control Structure in Fortran-77.	[16]

Code No: RR420504

Set No. 4

IV B.Tech II Semester Supplimentary Examinations, May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) Time: 3 hours Max Marks: 80 Answer any FIVE Questions

Answer any FIVE Questions All Questions carry equal marks *****

1. (a) What is Shared Memory?	
(b) Discuss about Self Scheduling.	[4+12]
2. Explain about the syntax of Fork and Join with an example.	[16]
3. (a) Discuss about in-out Barrier Calls.	
(b) What are the applications of Loop Splitting?	[8+8]
4. Explain about Recurrence Relations with example.	[16]
5. Write a parallel program for searching a number in the given li	st. [16]
6. Write a parallel program for average of n numbers.	[16]
7. What is Discrete event? Explain.	[16]
8. (a) What are the limitations of Parallel Programming?	
(b) What are the Benefits of Parallel Programming?	[8+8]
