Set No. 1

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

Time: 3 hours

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

1. Write a short notes on

	(a) Fork	
	(b) Join	[8+8]
2.	Discuss about Race Condition with example.	[16]
3.	(a) Discuss about in-out Barrier Calls.	
	(b) What are the applications of Loop Splitting?	[8+8]
4.	Differentiate between Forward and Backward Data Dependency.	[16]
5.	Write a parallel program for searching a number in the given list.	[16]
6.	Write a parallel program for sorting of n numbers.	[16]
7.	Derive the system efficiency when implementing Gaussian elimination with the partition and the cyclic partition. [D]	e strip [16]
8.	Explain the Control Structure in Fortran-77.	[16]

Set No. 2

IV B.Tech II Semester Regular Examinations, Apr/May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) 3 hours Max Marks: 80

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star$

1.	What are the parameters for increased computational speed? Explain.	[16]
2.	What is the need of Parallel Programming?	[16]
3.	(a) Explain about Race Condition.(b) What is Scheduling?	[10] [6]
4.	Describe about Block Scheduling.	[16]
5.	Explain about the structure of Parallel Programs.	[16]
6.	Write a parallel program for sorting of n numbers.	[16]
7.	Derive the system efficiency when implementing Gaussian elimination with the partition and the cyclic partition. [D]	strip [16]
8.	Explain the Control Structure in Fortran-77.	[16]

Set No. 3

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

Time: 3 hours

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

1.	Distinguish between the Sequential Programming and Parallel Programmin nology?	ng tech- [16]
2.	Give the importance of Self Scheduling.	[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.	(a) What is Overhead?	[4]
	(b) Explain the overhead with n number of processors. The number n is p	ositive. [12]
6.	What is traveling salesperson problem? Explain.	[16]
7.	Write a parallel program for summation of n-numbers (array).	[16]
8.	(a) What are the limitations of Parallel Programming?	[8]
	(b) What are the Benefits of Parallel Programming?	[8]

Set No. 4

IV B.Tech II Semester Regular Examinations, Apr/May 2008 PARALLEL PROGRAMMING (Computer Science & Engineering) 3 hours Max Marks: 80

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star$

1.	Explain the various types of Parallel Computers.	[16]
2.	(a) What are the various techniques for loop splitting?(b) Explain about Spin Locks	[8] [8]
3.	(a) Explain about Race Condition.	[10]
4.	(b) What is Scheduling? Differentiate between Forward and Backward Data Dependency.	[6]
5.	(a) What is Overhead?	[4]
	(b) Explain the overhead with n number of processors. The number n is	positive. [12]
6.	Write a parallel program for sorting of n numbers.	[16]
7.	What is the importance of Discrete Event and Discrete Time?	[16]
8.	Write a parallel program for summation of n numbers in Unix.	[16]
