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## B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)

## Elective – I : Parallel & Network Algorithm

	ages :	2	NIR/KW/18/3: Max. Marks:	
1,	Note	es: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. 3. Solve Question 3 OR Questions No. 4. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. 6. Solve Question 9 OR Questions No. 10. 7. Solve Question 11 OR Questions No. 12. 8. Assume suitable data whenever necessary. 9. Illustrate your answers whenever necessary with the help of neat	sketches.	7
3	b)	Define parallel processing. State law of measurement of performance of processing.	arallel	7
		OR		
2.	a)	What are different modes of parallel computing?		7
	b)	What are network topologies?		7
3.	a)	What is meant by tiling transformation? Discuss the situation where tiling is used.	transformation	7
	b)	What are the remedies for control dependency?		6
		OR	$\sim$ $\sim$	
4.	a)	What are different types of dependencies considered in parallel processing	g?	7
	b)	Explain loop independent dependency with example.	7	6
5.		Explain in detail hyper quick sort in view of parallel processing.		13
		OR		
6.	a)	Binary search can be implemented in parallel processing. Give suitable propen MP or MPI.	ogram using	7
	b)	Is it possible to use selection sort in parallel environment? If yes give para for the same.	allel algorithm	6
7.	4	Explain in detail parallel solutions to a linear equation with suitable exam	ple.	13
		OR	0	

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8.	a)	Explain Gauss method's step for parallel program?	7
7	b)	Write short note on Fourier Transform.	6
9.		Design Dijkestra algorithm for parallel processing.	13
		OR	
10.		Design a algorithm for shortest path for parallel processing.	13
11.		Name and explain any five platforms which can participate in grid computing.	14
		OR	
12.		Explain with suitable example depth first search algorithm in parallel processing environment.	14

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## All our dreams can come true if we have the courage to pursue them.

~ Walt Disney

