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## KADI SARVA VISHWAVIDYALAYA B.E. Semester-VIII Examination (April-2022)

SUBJECT CODE: IT801-N SUBJECT NAME: Distributed and Parallel Computing DATE: 08/04/2022 TIME: 12.30 P.M. to 3:30 P.M. TOTAL MARKS: 70

## Instructions:

- 1. Answer each section in separate Answer Sheet.
- 2. All questions are compulsory.
- 3. Indicateclearly, the options you attempted along with its respective question number.
- 4. Use the last page of main supplementary for rough work.

## SECTION -1

Q-1.	A)	Explain Counter implementation in synchronization.	[5]
	B)	Explain Message passing multicomputers in detail.	[5]
	C)	Explain Following Terms in detail	[5]
		1) Time Complexity	
		2) Latency Hiding	
		OR	
	C)	Explain Pipeline Processing with space-time diagram.	[5]
Q-2.	A)	Explain Static and Dynamic Process Creation in Message- Passing	[5]
		Programming.	
	B)	Explain M-ary Divide-and-conquer method.	[5]
		OR	
Q-2.	A)	Explain Pipelining for sorting using insertion sort.	[5]
	B)	Explain Semaphore in detail.	[5]
Q-3.	A)	Explain Pipelining for adding numbers with master process and with direct access to slave processes.	[5]
	B)	Explain butterfly barrier in detail.	[5]
	3.6.)	OR	
Q-3.	A)	Explain Sequential and Parallel process of Prime number generation.	[5]
	B)	Explain debugging in detail.	[5]

## SECTION - 2

0-4.	4)	What is barrier? Explain in detail with figure.	[5]
Q-4.			[5]
	B)	Explain Computational Time and Communication Time to evaluate parallel program.	
	C)	Explain Ring Termination Algorithm.	[5]
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	C)	Explain Tree Algorithm.	[5]
		Apply with the last and description of the resident and service an	
Q-5.	A)	How to solve a System of Linear Equations by iterations.	[5]
	B)	Explain Centralized Dynamic Load Balancing and Decentralized Dynamic Load Balancing.	[5]
		OR	- 1
Q-5.	A)	Explain shared memory multi processor using crossbar switch.	[5]
	B)	Explain OPENMP in detail.	[5]
		the production of the second second in the second second in the second second in the second s	
Q-6.	A)	What is deadlock in shared memory programming? Explain in detail.	[5]
	B)	Explain Distributed shared memory programming primitives.	[5]
		OR	
Q-6.	A)	What is monitor in shared memory programming? Explain Pthread condition variables.	[5]
	B)	How to implement Distributed shared memory? Explain in detail.	[5]

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*