## **SUBJECT CODE NO: E-241**

## FACULTY OF ENGINEERING AND TECHNOLOGY

## B.E.(CSE) Examination Nov/Dec 2017 Parallel & Distributed Computing (REVISED)

[Time: Three Hours]			[Max.Marks:80]	
		Please check whether you have got the right question paper.		
N.B		i) Question No.1 and 6 are compulsory.		
		ii) Attempt any two questions from each section.		
		iii) Figures right indicates full marks.		
		iv) Assume Suitable data if necessary.		
		SECTION A		
Q.1	a)	Explain Task graph model.	05	
	,	Draw & explain CUDA device memory types.	05	
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			3, 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	
Q.2	a)	Explain following network topologies i) Buses ii) crossbars	08	
		Explain concept of data parallelism in detail.	07	
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Q.3	a)	Explain parallel algorithm models in detail.	08	
		What is BlockIdx & ThreadIdx?	07	
	0)	What is Blockida & Threadida.	07	
Q.4	a)	Explain following terms: i) Pipelining Architecture ii) Superscalar Execution	08	
		Explain following terms: i) Degree of concurrency ii) Critical path length	07	
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Q.5	Explai	n the term decomposition. Explain all decomposition techniques in detail.	15	
		SECTION B		
Q.6		Explain happened before model in detail.	05	
	b)	Explain granularity in DSM.	05	
Q.7		What are the different design & implementation issues in DSM?	08	
	1	Explain structure of MapReduce program.	07	
		Laplain structure of Maprecure program.	07	
Q.8	a)	What is distributed computing? Explain characteristics of distributed computing	ng? 08	
		Explain Java RMI in detail.	07	
Q.9	- V- VX	What is mutual exclusion?	08	
	b)	How to set up SSH for Hadoop cluster?	07	
Q.10	a)	Explain following terms: i) Vector clocks ii) Direct dependency clocks	08	
	b)	Explain the term trashing in detail.	07	
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