[P.T.O.

B.Tech. 7th Semester (F) Scheme (CSE)

Examination, December-2018

ADVANCED COMPUTER ARCHITECTURE

Paper- CSE-401-F

		1 aper - Cor-401-r			
Time allowed: 3 hours] [Maximum marks: 1					
Not	te: Qu	estion No. 1 is compulsory. Attempt five question			
	in to	otal, selecting one question from each Section.			
1.	(a)	Define command and machine. $5\times4=20$			
	(b)	Does n-segment pipelining increases speed by time? Justify your answer.			
	(c)	Compare Cold and Warm Caches.			
	(d)	Define Memory Bank and Memory Module.			
,	(e)	What do you mean by clustering?			
		Section-A			
2.	(a)	What is cycle quantization? Find the effect of			
		cycle quantization on Pipelining.			
	(b)	Describe Virtual to Real mapping method.			
		or			
3.	(a)	Differentiate between hard wired control an			
		micro programmed control.			
	(b)	Explain various kinds of overhead in pipelin			
		processing.			
		Section-B			
4.	(a)	What are two strategies for memory updation on			
		write in cache? Describe.			

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	(b) How to overlap T-Cycle in V-R Translation? 10				
	• . •	or			
5.	(a)	Describe Level Caches and Sectored Cadetail.	ches in		
	(b)	Describe Set- associative mapping sche	me for		
		Cache memory.	10		
		Section-C			
6.	Describe Rau's Strecker's and Hellerman's memory				
	mod	20			
		or			
7.	Explain mixed Queen Model and Delta Binomial model				
	in de	etail.	20		
•		Section-D			
8. ⁻	(a)	What is Vector Memory? What are	vector		
		instructions / operations?	10		
	(b)	Compare vector processors and multiple	e Issue		
	•	Machines.	10		
,		or	· · · · · · · · · · · · · · · · · · ·		
9.	(a)	Write note on "Memory Coherency in	Shared		
		multiprocessors.	10		
	(b)	What is the effect of grain size on the am	ount of		
		parallelism in multiprocessor system?	10		