

Code No: R32052 $\,\,$ R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, April – 2017

COMPUTER ARCHITECTURE

(Computer Science Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1		Describe at least four characteristics of MIMD multiprocessor that distinguish them from multiple computer systems or computer networks.	[15M]
2	a)	Draw and explain the memory hierarchy for personal mobile devices.	[8M]
	b)	Write a short note on Virtual Memory and Virtual Machines.	[7M]
3	a)	Make a comparison between the typical RISC and typical CISC processor architectures.	[10M]
	b)	Explain about Instruction-set Architectures.	[5M]
4	a)	Define latency. Explain Collision with scheduling latency.	[7M]
	b)	Give a brief note on Instruction Execution Phases.	[8M]
5	a)	Explain the principles of vector processing.	[7M]
	b)	Discuss the Cray Y-MP Multi vector Multiprocessors.	[8M]
6	a)	Briefly explain the Bus-Snooping Cache Coherence Protocols.	[7M]
	b)	Discuss the Directory-based cache coherence.	[8M]
7	a)	Explain MIMD with distributed Memory with a neat diagram.	[7M]
	b)	List and explain MIMD design Issues.	[8M]
8	a)	Write a short note on Complexity of PRAM Algorithms.	[7M]
	b)	Discuss about the Cray Line of Computer Systems.	[8M]
