

Code No: **R41195**

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Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 ADVANCED COMPUTER ARCHITECTURE

(Electronics and Computer Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks *****

1	a)	Write briefly about the evolution of a computer Architecture.	[8]
	b)	Discuss in detail about reporting and summarizing performance of computer.	[7]
2	a)	Explain the role of Compiler.	[8]
	b)	List and explain different instruction formats.	[7]
3	a)	Explain in detail the limitations of ILP.	[8]
	b)	Explain how the prediction and Speculation support will be provided in IA64.	[7]
4	a)	Discuss briefly about the static branch prediction scheme.	[8]
	b)	Discuss hardware versus software solutions.	[7]
5	a)	Explain the operation of associative cache memories.	[8]
	b)	Define virtual memory? What are the advantages and disadvantages' in using virtual memory?	[7]
6	a)	List and explain different interconnection structures used in multiprocessors.	[8]
	b)	What are distributed shared memory architecture? Explain.	[7]
7	a)	What are the different storage systems? Give their specifications.	[8]
	b)	Discuss the Designing of I/O system in detail.	[7]
8	a)	Explain interconnecting network media.	[8]
	b)	Write short notes on Clusters.	[7]

1 of 1