Hall Ticket Number :	
Code: 1G457	R-11 / R-13
III B.Tech. I Semester Supplementary Examinations May 2018	
Computer System Architecture	
(Electronics and Com Max. Marks: 70	munication Engineering) Time: 3 Hours
Answer any Five questions	
All Questions carry equal marks (14 Marks each)	
1. a) What is a Bus? Explain Single and Multi	ble Bus Structure in an Architecture 7M
b) Define MIPS and Throughput rate for Pe	rformance of Computer 7M
2. What are the phases of instruction cycle? Explain each. 14M	
3. a) Illustrate three categories of computer instructions with an Example 6M	
b) Explain any 4 addressing modes in com	outer Architecture 8M
4. a) Explain address sequencing with neat d	agram. 7M
b) Discuss the design of control unit.	7M
5. Explain the flow chart for Division Opera	tion with division Algorithm 14M
6. What is virtual memory? What is the rela	tion between address and memory space in a
virtual memory system? Explain with the	help of example 14M
 What is the difference between isolat advantages and disadvantages of each 	ed I/O and memory-mapped I/O? what are 14M
8. a) Write short notes on SIMD Array Proces	sor 8M
b) Explain in detail arithmetic pipeline	8M
