Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-I(New course) • EXAMINATION - WINTER- 2015

Subject Code: 3715201 Subject Name: Advanced Computer Architecture Time:2:30 pm to 5:00 pm Instructions:		Date: 01/01/2016 Total Marks: 70	
Q.1	(a) (b)	Explain various classes of computer architecture. Explain throughput, latency, power and cost.	07 07
Q.2	(a) (b)	Compare various platforms in terms of performance and efficient Explain subroutine nesting and the processor stack. OR	ency. 07
	(b)	Explain reset and clocking devices.	07
Q.3	(a) (b)	Explain Pipeline Organization in detail. Explain various addressing modes in instruction set architectus OR	re. 07
Q.3	(a) (b)	Compare and contrast RISC v/s CISC. Explain Cache Coherency.	07 07
Q.4	(a) (b)	Explain ARM characteristics and register ARM register struct Explain hardware component selection and datasheet analysis. OR	
Q.4	(a) (b)	Explain Intel 8051 architecture. Explain SPARC architecture.	07 07
Q.5	(a) (b)	Explain various standard interfaces. Explain virtual memory.	07 07
Q.5	(a) (b)	OR Explain asynchronous bus organization. Explain PIC microcontroller architecture.	07 07
