Code No: C7009

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012 ADVANCED COMPUTER ARCHITECTURE (ELECTRONICS AND COMMUNICATION ENGINEERING)

Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

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- 1.a) What is meant by addressing mode? Discuss various addressing modes.
 - b) List the types of operands.
- 2.a) What is an instruction cycle? Explain.
 - b) Give a note on RISC and CISC controversy.
- 3.a) Discuss associate memory organization.
 - b) Compare and contrast paging with segmentation.
- 4.a) Explain interrupt driven I/O.
 - b) Describe the functionality of IO processor.
- 5.a) Discuss the problems in parallel processing.
 - b) Differentiate between horizontal and vertical instruction formats.
- 6.a) Describe distributed shared memory.
 - b) Explain the significance of RAID. Briefly discuss its levels.
- 7. Discuss the practical issues in interconnecting networks with suitable illustrations.
- 8.a) Explain the necessary hardware support for more ILP at compile time.
 - b) Describe thread level parallelism and synchronization.

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