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M.Tech I Semester Regular & Supplementary Examinations February 2016

ADVANCED COMPUTER ARCHITECTURE

(Common to DSCE, DECS & ES) (For students admitted in 2011, 2012, 2013, 2014 & 2015 only)

Time: 3 hours Max Marks: 60

Answer any FIVE questions All questions carry equal marks

- (a) Explain the equal duration computation model for the multiprocessors.
 - (b) How are the performance of computer systems are measured? Explain.
- 2 (a) Explain the process of encoding an instruction set.
 - (b) Describe the addressing modes for signal processing.
- 3 (a) Explain how hardware based speculation can address these limitations.
 - (b) What is the degree of parallelism? Explain.
- 4 (a) Give a brief account on instruction level parallelism.
 - (b) Explain basic VLIW approach.
- 5 (a) What is meant by dynamic scheduling? Explain
 - (b) Discuss the significance of virtual memory.
- 6 (a) Differentiate vector and multithread architecture.
 - (b) What is vector processing and list its characteristics?
- 7 (a) What are the rules in designing an I/O system?
 - (b) Discuss design space of shelving.
- 8 Write short notes on:
 - (a) RAID.
 - (b) Designing a cluster.

