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M.Tech I Semester Supplementary Examinations August 2016

ADVANCED COMPUTER ARCHITECTURE

(Common to DSCE, DECS & ES)

(For students admitted in 2012, 2013, 2014 & 2015 only)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions

All questions carry equal marks

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1 (a) Write about reporting, performance quantitative principles of computer design.
(b) Briefly explain about cost measuring principles in computer design.

2 (a) Write about addressing modes for signal processing.
(b) Write short notes on operations in the instruction set.

3 (a) Write the limitations of ILP with a special mention on realizable processors.
(b) What is branch prediction? Explain the various schemes in detail.

4 Explain the need for hardware support for exposing more parallelism at compile time.

5 (a) Briefly explain about performance of a cache.
(b) How cache behavior can be improved by reducing the miss rate? Explain it.

6 Explain in detail the symmetric shared memory architectures with reference to multiprocessor cache coherence problem.

7 Explain the bus standards and the interfaces. With timing diagrams, explain the read and write operations occurring in a typical bus.

8 Write about practical issues in interconnecting networks.

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