Code: R7410504

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R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

ADVANCED COMPUTER ARCHITECTURE

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- (a) Explain about quantitative principles of computer design.
 - (b) Balancing of subsystem with bandwidth.
- 2 Explain about pipelined floating print adder with four processing stages.
- 3 Write about:
 - (a) Addressing modes of signal processing.
 - (b) Operations in instruction set.
- 4 Explain memory hierarchy, static branch operation.
- 5 Discuss pipeline scheduling in detail with neat diagrams.
- 6 Explain shared memory architecture and discuss distributed shared memory.
- 7 Explain about RAID, SIMD array processor.
- 8 Define:
 - (a) Cluster inter and intra
 - (b) Time of flight
 - (c) Transport latency
 - (d) Over head
