

Code: 9A05406

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2014/2015

COMPUTER ORGANIZATION

(Common to CSE & ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) How to improve the performance of the computer?
(b) Explain about communication topologies used in multiprocessors.
- 2 (a) Explain about the arithmetic micro operations.
(b) Explain about the different types of addressing modes.
- 3 Discuss in detail the design of control unit with block diagram.
- 4 (a) Explain addition and subtraction algorithm for floating-point data.
(b) Explain division algorithm for floating-point data.
- 5 (a) Write short notes on DVD-Rom and DVD-Audio.
(b) Explain the different features of the DVD formats.
- 6 (a) Give features of IEEE 1394 bus.
(b) Draw and explain the block diagram of I/O interface.
- 7 (a) Explain the need for vector processing.
(b) Explain the general instruction format of the vector processor.
- 8 Discuss the Cache Coherence in the centralized share memory architecture.
