

Code: 9A05704

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

ADVANCED COMPUTER ARCHITECTURE

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 What is parallelism? What are the various conditions of parallelism?
- 2 (a) What is Amdahl's? Explain.
(b) Explain about the application models of parallel computers.
- 3 (a) Briefly explain about linear pipeline processors.
(b) What is cache? Explain various cache addressing models.
- 4 (a) What is a multistage network? Explain the different types of multistage network.
(b) Write short notes on virtual channels.
- 5 (a) Explain briefly about the CM-2 architecture.
(b) Write short notes on multi pipeline networking.
- 6 Explain about relaxed memory consistency and fine grain parallelism.
- 7 Explain about the Tomasulo's algorithm in detail.
- 8 What are the different forms of parallelism? Explain them briefly.
