

PREVIOUS YEAR QUESTION PAPER
CS 405
COMPUTER SYSTEM ARCHITECTURE
MODULE 3 AND 4

DECEMBER 2018

1.a) Draw the state transition graph for a cache block using Goodman's write-once protocol for cache coherence.

b) Design an 8 input omega network using 2X2 switches as building blocks. Show the switch settings for the permutation $\pi_1 = (0,6,4,7,3)(1,5)(2)$. Show the conflicts in switch settings, if any. Explain blocking and non-blocking networks in this context.

2.a) Differentiate between synchronous and asynchronous model of linear pipeline processors.

b) Consider the following pipeline reservation table:

| | 1 | 2 | 3 | 4 |
|----|---|---|---|---|
| S1 | X | | | X |
| S2 | | X | | |
| S3 | | | X | |

- i) What are the forbidden latencies?
- ii) Draw the transition diagram.
- iii) List all the simple cycles and greedy cycles.
- iv) Determine the optimal constant latency cycle and minimal average latency (MAL)
- v) Let the pipeline clock period be $\tau = 20\text{ns}$. Determine the throughput of the pipeline.

3.a) Explain full-map directory based protocol.

b) What do you mean by dimension order routing? Consider a 16 node hypercube network. Based on E-cube routing algorithm, show how to route a message from 0010 to 1001. Find all intermediate nodes on routing path.

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