

**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.

# Computer System Architecture Exam Papers

**Lei Huang**



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