

SECTION-D

7. Give the hardware organization of associative memory. Why associative memory is faster than other memories? Deduce the logic equation used to find the match in the associative memory.
8.
 - a. Explain Cache Coherence.
 - b. What are the various page replacement policies? Discuss in brief.

SECTION-E

9. **Write briefly :**
 - a. Differentiate between Arithmetic Shift Left and Arithmetic Shift Right.
 - b. What is a microprogram sequencer?
 - c. Define interface.
 - d. What is a control word?
 - e. Give an example each of zero-address, one-address, two-address and three address instructions.
 - f. Compare single bus structure and multiple bus structure?
 - g. What is n-bit ripple carry adder?
 - h. Name two types of memory interleaving.
 - i. Differentiate between synchronous and asynchronous bus.
 - j. What are called stalls?

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