

SECTION-B

- Q2) Explain in detail the CISC architecture.
- Q3) Briefly outline the concept of auxiliary memory and associative memory.
- Q4) Why page-table is required in a virtual memory system? Explain different ways of organizing a table.
- Q5) Explain, in detail the various addressing modes of Central Processing Unit.
- Q6) Briefly explain the concept of synchronization in context of inter-process communication.

SECTION-C

- Q7) Explain instruction cycle. Give the RTL statement for each sub cycle. How the instruction cycle is to accommodate the interrupt from I/O devices?
- Q8) Explain how cache memory is different from virtual memory. Also, discuss various page replacement policies for virtual memory with examples.
- Q9) Write short notes on :
 - a) DMA
 - b) Stack organization