

SECTION-B

2. What are the types of ALU? Give advanced features of ALU.
3. Discuss the data and control path methods in pipelining.
4. Define Micro-operation with example. Give the format for micro instruction.
5. Define addressing mode and describe the basic addressing modes with an example for each.
6. List and explain the steps involved in the execution of a complete instruction.

SECTION-C

7. Explain with the help of a neat sketch diagram, the working principle of DMA.
8. Discuss the features of cache memory and different mapping functions used for its accessing. How can its performance be improved?
9. Discuss different types of control unit organizations. Compare and contrast the hardwired control organization and micro programmed Control organization.