BCA/D-16
COMPUTER ARCHITECTURE
PAPER-BBA-233

Time Allowed: 3 Hours   Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (I) What is Control Memory ?
    (ii) What do you mean by Accumulator ?
    (iii) What is Logic operation?
    (iv)   What is MAR
    (v)   What is CISC?
    (vi)   What is Software Interrupt?
    (vii)   What do you mean by Synchronous Mode of Data Transfer?
    (viii)   What is Cache Memory?
                            Unit-I
2. Explain the design of Accumulator Logic.
3. Explain various types of Computer Instructions.
                            Unit-II
4. Design Address Sequencer and explain its working?
5. Define Micro operation. What are the four main categories of micro operations. Give four example of each categories using RTL?
                            Unit-III
6. What do you mean by Program Interrupt? Explain its types.
7. Explain Instruction Format? What are the various types of Instruction Format? Discuss.
                            Unit-IV
8. What is I/O Interface? Explain the Component and function of I/O Interface?
9. Write short note on the following :
                (a)   Associate Mapping
                (b)   Direct Mapping
                (c)   Set-Associative Mapping
                (d)   Locality of Reference.