Section-A
Answer All Questions

1. Define Program Counter ?   **[2 marks] [CO1] [L2]**

2. What are the primary registers present in CPU?   **[2 marks] [CO1] [L2]**

3. What does an instruction contain?   **[2 marks] [CO1] [L2]**

4. Why is MAR connection with memory unidirectional?   **[2 marks] [CO1] [L2]**

Section-B
Answer All Questions

1. Describe with diagram Von Neumann Architecture.   **[6 marks] [CO1] [L2]**

2. Differentiate Big Endian System and Little Endian System. **[6 marks] [CO1] [L2]**

Section-C
Answer All Questions

1. Discuss different types instruction formats with example. **[10 marks] [CO1] [L2]**

2. List the instructions using one-address instruction for the below mentioned example.

   X= (A*B)+(C*D), where A,B,C,D & X are memory locations   **[10 marks] [CO1] [L2]**

Additional Questions

1. Describe the different functional units of computer?

2. Draw the connection diagram between memory and processor.

3. Write the Register Transfer Notation for the following instruction

         Add R1,R2,R3