

4. Out of shared and distributed Memory MIMD architecture which is best and under which scenarios explain with an example.
5. (a) Determine the number of clock cycles that it takes to process 200 task in a six segment pipeline. Explain with help of diagram.
(b) Explain what vector architecture is and why it is used?
6. (a) Why does DMA have priority over CPU when both request a memory transfer?
(b) Formulate a hardware procedure for detecting an overflow by computing the sign of the sum with the signs of the augends and addend. The numbers are in signed 2's complement representation.
7. What is ILP processors and where they are used? What is code scheduling for ILP processors? Explain with help of diagram.
8. Write a short note on : Pipelined processors, VLIW architecture and super scalar processors.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.