

- b) What is the code sequence for C = (A+B) \* (A-B) for four classes of Instruction sets. [12]
- 2) What is memory addressing? What is the need of addressing mode? Explain. types of addressing modes (at least nine) with examples. And also explain the usage of each addressing mode. [12]
- 3) Write short notes on the following a) Segmentation b) Semiconductor and ferrite core memory c) Cache memory vs virtual memory [12] 4) a) Explain programmed I/O. b) Write about various peripheral devices. [12] 5) Write a note on distributed Shared Memory Multiprocessors. [12] 6) What is Instruction level parallelism? Explain various data dependencies and Hazards. [12] 7) a) Differentiate 'ILP using software approach' and 'ILP using hardware approach'. b) Write about thread level parallelism. [12] 8) a) Write about RAID. b) Write about Interconnection network media. [12]

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