St. Joseph's College of Engineering

St. Joseph's Institute of Technology

Department of Computer Science & Engineering

Assignment –IV

Unit 4

Part – A

1. What is Instruction level parallelism?
2. What is Speculation?
3. What is Loop unrolling?
4. Define Commit unit.
5. Define multithreading.
6. What is symmetric multi-core processor?
7. What is Coarse grained multithreading?
8. Define Strong scaling and weak scaling.

Part - B

1. Explain Instruction level parallelism.
2. Explain challenges in parallel processing.
3. Explain SISD,SIMD,MISD and MIMD with an example.
4. Discuss Shared memory multiprocessor with a neat diagram.