



SNS COLLEGE OF ENGINEERING



Computer organisation and Architecture

UNIT-IV

PART A

1. Define parallel processing
2. Define multiprocessor system
3. Define parallel processing program
4. What is cluster
5. What is multicore
6. What is CMP and SMP
7. State Amdahl's law
8. What is the use of Amdahl's law
9. What is strong scaling
10. What is weak scaling
11. What is SISD
12. What is SIMD
13. What is MISD
14. What is data level parallelism
15. What is hardware multithreading
16. Compare process switch and thread switch
17. Define interleaved or fine grained multithreading
18. Define blocked or coarse grained multithreading
19. What is UMA processor
20. What is NUMA processor

UNIT

1. Explain Flynn's classification in detail
2. Discuss the principle of hardware multithreading and elaborate its types
3. What are multicore processors and explain it
4. Deduce the challenges faced in parallelism
5. Discuss in detail instruction level parallelism