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CP 5152 Advanced Computer Architecture Important 2 Mark Questions

<u>Unit I</u>

- 1. Define dynamic scheduling.
- 2. List the limitations ILP.
- 3. Define: Instruction level parallelism.
- 4. Define: Dynamic scheduling.
- 5. List the challenges in exposing instruction level parallelism.
- 6. Differentiate coarse grained and fine-grained multithreading.
- 7. What is an instruction register?
- 8. Give the formula for CPU execution time for a program.
- 9. List the major components of a computer system.
- 10. State the need for indirect addressing mode. Give an example.

<u>Unit II</u>

- 1. List any four techniques used for cache optimization.
- 2. State the need for virtual memory.
- 3. Distinguish between Virtual Memory and Virtual Machine.
- 4. What are the ways in which performance of cache memory can be increased?
- 5. When do we say that a cache block is exclusive?
- 6. What happens when a private and shared item are cached?
- 7. What is a guard bit and what are the ways to truncate the guard bits?
- 8. What is arithmetic overflow?
- 9. Subtract $(11010)_2 (10000)_2$ using 1's complement and 2's complement method.
- 10. Write the rules to perform addition on floating point numbers.

<u>Unit III</u>

- 1. Define Cache coherence problem.
- 2. State the types of Interconnection networks.
- 3. Define multistage Interconnection Network with an example.
- 4. Give the difference between Centralized and symmetric shared memory.
- 5. List the disadvantages of using symmetric shared memory.
- 6. What are the issues that occur with cache coherence?
- 7. What is meant by pipeline bubble?
- 8. What is a data path?
- 9. Name the control signals required to perform arithmetic operations.
- 10. Define hazard. Give an example for data hazard.

<u>Unit IV</u>

- 1. Draw the diagram of homogeneous multicore architecture.
- 2. What is meant by scale computer?
- 3. State some unique features of IBM cell architecture.
- 4. State the salient features of Cloud computing.
- 5. In what way is multicore processor superior to single core processor?
- 6. Define the effectiveness of power utilization.
- 7. What is instruction level parallelism?

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<u>Unit V</u>

- 1. Define: SIMD.
- 2. State the need for Graphic processing unit.
- 3. Define GPGPU computing.
- 4. Give the real time examples as how SIMD is extended in multimedia.
- 5. Highlight the improvements obtained with graphics processing units.
- 6. Compare scalar and vector processors.
- 7. What is meant by address mapping?
- 8. What is cache memory?
- 9. Define memory interleaving.

10. Summarize the sequence of events involved in handling an interrupt request from a single device.