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Roll No

CS-6001-CBGS

B.E. VI Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Advanced Computer Architecture

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Discuss in detail about Flynn's Classification of computers? 7
- b) Compare and contrasts between Data flow and Control flow computers? 7
2. a) What is meant by parallelism? Discuss hardware and software parallelism. 9
- b) Define latency and throughput of pipeline. 5
3. a) What is instruction set? Differentiate RISC and CISC architectures. 9
- b) What is meant by interleaving? Explain interleaved memory organization? 5
4. a) Briefly explain linear pipeline and non-linear pipeline processor. 9
- b) Describe dynamic instruction scheduling. 5

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5. a) Define threading. Discuss the issues of multithreading and its solutions. 8
- b) Discuss message routing schemes in Multicomputer network? 6
6. Write a brief note on the following:
- a) Parallel programming model 7
- b) Message passing model 7
7. Write a short note on the following:
- a) Snoopy protocols 5
- b) Cache coherence 4
- c) Object-Oriented Model 5
8. a) Define Memory. Discuss Memory Hierarchy with neat diagram? 7
- b) Differentiate distributed memory model and shared memory model. 7
