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Total No. of Pages: 02							Roll No.
Total No. of Ouestions: 09							

B. Tech. (Sem.-3^{rd)} COMPUTER ARCHITECTURE

Subject Code: CS-201 Paper ID: [A0451]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

- 1. Section –A, is Compulsory.
- 2. Attempt any four questions from Section-B.
- 3. Attempt any two questions from Section-C.

$\underline{Section - A} \tag{10x2=20}$

- Q.1. Write briefly
- (a) What do you mean by memory hierarchy?
- (b) Discuss 8255 chip
- (c) What is the difference between micro program and micro code?
- (d) What is the role of shift Registers in digital computers?
- (e) Differentiate between RISC & CISC
- (f) How cache Memory is useful in memory hierarchy
- (g) Write characteristics of I/O channels.
- (h) What is a multiprocessor? Explain the term SIMD
- (i) What is the role of shift register in digital computer?
- (j) Differentiate among direct mapping and associate mapping.

Section -B (4x5=20)

- Q.2. What are Banch marks? Discuss various kinds of Benchmarks. Give their significance in computer architecture.
- Q.3. Explain in brief about MIMD machines.

Page: 1

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- Q.4. Discuss the Booth's Algorithm for binary multiplication.
- Q.5. Which is the elements considered in Bus design.
- Q.6. Discuss the hardware implementation of division for signed-magnitude data.

Section -C (2x10=20)

- Q.7. Discuss the following:
 - (a) Parallel Computing
 - (b) Distributed computing.
 - (c) Serial and Parallel interface
- Q.8.(a) Explain instruction set of SPARC with descriptions
 - (b) Write and explain types of parallel processor systems.
- What do you mean by initialisation of DMA controller? How DMA controller works? Q.9. Explain with suitable block diagram.

MMM Polibarder Colly ******END******