Dr. viven senger

Rall	No:	
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## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- September 2019

## M.Tech. I Semester

COURSE CODE: 10M11CI114

MAX. MARKS: 15

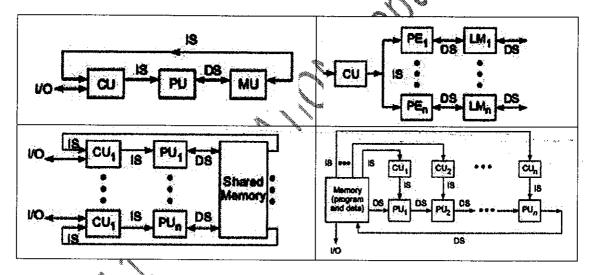
COURSE NAME: HIGH PERFORMANCE COMPUTER ARCHITECTURE

**COURSE CREDITS: 03** 

MAX. TIME:

Note: All questions are compulsory. Each question carries equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.

- 1. (a) What are the Elements of Modem Computers?
  - (b) Explain the following Flynn's Classifications of computer architecture.



- 2. (a) Explain the following System Attributes to Performance
  - i Sock Rate and CPI
  - ii. Performance factors versus System Attributes
  - iii. MIPS Rate
  - b) What are the two approaches of parallel programing? Explain with flow chart
- 3 What is the difference between Multiprocessor and Multicomputer? Explain the following architectures:
  - i. Two NUMA models for Multiprocessor SYSTEMS
  - ii. Generic model a massage passing Multicomputer