

Exam. Code : 107203

Subject Code : 2092

BCA 3rd Semester

COMPUTER ARCHITECTURE

Paper-I

Time Allowed—3 Hours]

[Maximum Marks—75

Note :- (1) The candidates are required to attempt five questions. All questions carry 15 marks each.

(2) The students can use only non-programmable non-storage type calculator.

1. What is Register Transfer ? Explain various registers.
2. What are Computer Instructions ? Explain design of a basic computer.
3. Explain Wilhe's Design of Hardwired and Microprogrammed Control Unit.
4. What is Memory Hierarchy ? Explain Cache and Virtual Memory and also write difference between Cache and Virtual Memory.
5. Explain I/O Interface. What are DMA and I/O processor ? Explain.
6. Explain Parallel Processing Pipelining.
7. What are Parallel and Distributed computers ? Explain.
8. What is Vector Processing ? Explain with an example.