



SCAN ME



VIT
Vellore Institute of Technology
Deemed to be University under section 3 of UCA Act, 1956

School of Computer Science & Engineering

Continuous Assessment Test – I

CBS1004- Computer Architecture and Organization

Time: 1:30 Hrs

Slot : A1

Max.Marks:50

Answers ALL the questions(5×10=50 Marks)

1. Assume that the IAS machine has to execute the Instruction in parallel way, write the procedure to execute the Instruction.
2. Detail the IAS machine Architecture with a sample program execution in the machine.
3. Write a Assembly level code (a) To check the given number is greater or small by using the IAS instruction set. (b) To check the given number is Odd/Even (c) Addition of N numbers
4. Assume that following register values
PC= 1, BX=1000, SI= 50, DI=50, R1= 400, Offset = 100
Memory Table:

Address	Value
399	15
400	13
401	14
1000	7
1001	5
1002	6
1050	78
1100	8
1101	9
2000	200

Calculate the Effective address for the different Addressing modes.

5. a) Detail the advantage and disadvantage of the following instruction types.
 - (i) One Address
 - (ii) Two Address
 - (iii) Three Address
 - (iv) Zero Address.

(b) Write addition of two numbers from the above instruction types.