



School of Computer Science and Engineering

Winter Semester 2023-2024 Continuous Assessment Test – I

SLOT: F2

Programme Name & Branch : B.E / BBS

Course Name & code: CBS1004 & Computer Architecture and Organization

Class Number (s): VL2023240503603,3602

Faculty Name (s): PROF. DILIPKUMAR S, PROF. ANURADHA G

Exam Duration: 90 Min.

Maximum Marks: 50

Q.No.	Question	Max Marks
1.	(a) Give the specifications of IAS machine. (4 Marks) b. Write an Assembly code using IAS instructions for performing the following operations: $Z = X / Y$ (6 Marks)	10
2.	Explain in detail about Different types of addressing modes with example.	10
3.	a. Draw the flowchart for the Modified Booth algorithm. (4 Marks) b. Perform multiplication of given two numbers, $+14 \times -5$ using Modified Booth algorithm. Description of each step should be given. (6 Marks)	10
4.	Compute using booth Algorithm for the following $+10 \times +13$ and draw necessary flowchart for the operations.	10
5.	With neat flowchart and algorithm Perform division using Non-restoring method for the below Dividend (Q)= 9 , Divisor (B) =5.	10