## Continuous Assessment Test - II



Programme Name & Branch: M.Tech (Integrated)

Course Name & Code: CSI2005 Principles of Compiler Design

Exam Duration: 50+10 Min Slot:B1

Faculty Name: R KANNADASAN Maximum Marks: 30

Answer all Questions		
S.No.	Questions SET A	Course Outcome (CO)
1	Construct LALR parsing table S→ L=R S→R S→*R L→id R→L	CO1
2	Explain& example following code optimization  a) Common sub expression elimination  b) Copy propagation  c) Dead code elimination  d) Code motion	C02
3	peep hole optimization,     register allocation and assignment,     instruction selection by tree rewriting	CO3
	SET B	
1	Construct LALR(1) parser table for the grammar S→iCts CtSeS a C→b	
2	What do you mean by three address code? Write various instruction forms in	
	perception with three address code. Write three address code for the	
	expression-(a+b)*(c+d) + (a+b+c) and represent it into quadruples, triples	
	and indirect triples. Also construct the DAG representation.	
3	Briefly explain back-patching.	