

SSN COLLEGE OF ENGINEERING, KALAVAKKAM – 603 110
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
B.E. Computer Science and Engineering
CS6660 COMPILER DESIGN

TUTORIAL

Qn. No	Tutorial Questions	Marks	(KL,CO _n)
1	Construct SLR parsing table for the following grammar $G: S \rightarrow (L) \mid 9$ $L \rightarrow L , S \mid S$	20	K3,CO3
2	Construct LL(1) parsing table for the following grammar and parse the sentence aaabb $G: S \rightarrow A a A b \mid B b B a$ $A \rightarrow \epsilon$ $B \rightarrow \epsilon$	20	K3,CO3
3	Construct recursive descent parser for the following grammar $G; E \rightarrow i E'$ $E' \rightarrow + i E' \mid \epsilon$	20	K2,CO3
4	Develop grammar for boolean expression incorporating the precedence of boolean operators (Clue: Rethink of Grammar for arithmetic expression)	5	K5,CO3
5	Why grammar $A \rightarrow \alpha \beta 1 \mid \alpha \beta 2$ generated multiple entries in the predictive parsing table? What is the name of this grammar?	5	K2,CO3
6.	Develop a Yacc desk calculator program that will evaluate Boolean expression.	10	K3,CO3
7	Design grammar for the following sentence begin while a > b do begin x = y + z a = a - b end x = y - z end	10	K5,CO3
8	Write grammar for branching statements	10	K5,CO3