E->E+T | T T->T\*F | F F-> (E) | id

## TONTADARYA COLLEGE OF ENGINEERING

(Department of Computer Science)

## Internal Assessment -3 (18CS61)

Date: 14-07-2022 : SS & CD Subject Time : 9.15 to 10.45 : 6 Semester Answer following questions choosing one question from each part Total Marks: 50 PART-A CO a) What is the role of parser? Explain the different error recovery 13M Q1 12M strategies. (CO2) b) Define with an example. i. Left most derivation. Right most derivation. ii. iii. Parse trees. OR a) What is left factoring? Rewrite the following grammar after left 13M (CO2) Q2 factored. S->iEtS|iEtSeS|a ii)A->aAB|aA|a i) E->b B->bB/b b) What is shift reduce parsing? Explain the conflicts that may occur 12M (CO2) during shift reduce parsing with example. PART-B CO a) What is Bottom up Parsing? Explain Reductions, Handle and 13M (CO2) Q3 Handle Pruning with example. b) What is Recursion? Eliminate left recursion from the following 12 M (CO2) grammar: S->Aalb A->Ac | Sd | f OR Construct the LL(1) parsing table for the following productions: 25 M (CO2) Q4

Course Outcome	Complete Title
CO2	Design and develop lexical analyzers, parsers and code generators