COLLEGE OF ENGINEERING AND MANAGEMENT PUNNAPRA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COMPILER DESIGN

MODULE III

OLD UNIVERSITY QUESTIONS

APRIL 2018

1. Demonstrate the identification of handles in operator precedence parsing?
2. Construct canonical LR(0) collection of items for the grammar below.

   S -> L = R
   S -> R
   L -> * R
   L -> id
   R -> L

   Also identify a shift reduce conflict in the LR(0) collection constructed above
3. Construct LALR parse table for the grammar S->CC,C->cC|d

MAY 2019

4. Explain the main actions in a shift reduce parser
5. What are different parsing conflicts in SLR parsing table?
6. Find the LR(0) items for the grammar

   S->SS | a| €.
7. Derive LALR (1) parsing algorithm for following grammar

   S→AS/b A→SA/a
8. Explain operator grammar and operator precedence parsing

DECEMBER 2019

9. Compute FIRST and FOLLOW for the grammar:

   S -> SS+ | SS* | a
10. Write the algorithm to construct LR(1) collection for a grammar.
11. Write algorithm for SLR paring table construction
12. Construct the SLR table for the grammar:

    S -> aSbS | a
13. Differentiate CLR and LALR parsers.