## Department of Computer Science and Engineering Indian Institute of Technology, Kharagpur

Compiler Theory: CS31003 3rd year CSE, 5th Semester

Assignment - 3: Parsing Marks: 10

Assign Date: September 23, 2020 Submit Date: 23:55, September 29, 2020

Mode: Individual Submission

1. Write Postfix expression of the following infix expression.

 $4 \times 1 = 4$ 

- a. a+b\*c+(d\*e)
- b. a-b-c
- c. a\*(b+c)/d
- d. (a+(b\*c))/(d-e)
- 2. Build the LR(0) parsing table and draw parse tree for the input w = abbcde. 4 + 2 = 6
  - S -> aABe
  - A -> Abc / b
  - $B \rightarrow d$

Note: Please submit your answer handwritten in paper. Upload your answer in .pdf format in the moodle server. File name should be named as ass1\_roll.pdf, where "roll" is your roll number.