



Exercise: 05

Stack and Queue

05 – Oct – 2023

### Spot ( 5 Marks)

1. Implement the conversion of infix to postfix expression using stack for the following expression

$K+L-M^*(O^P)^*WUV^*T+Q$

Briefly give the answers for the following questions

- (i) What is the output of the following expression:  $2\ 3\ 4\ 5\ +^*\ -\ 2$ .
- (ii) What is the maximum difference between number of operators and operands?
- (iii) What is the advantage of postfix expression?
- (iv) Which expression doesn't require parenthesis?
- (v) What is the output of the following expression:  $+^*\ -\ 2\ 3\ 4\ 5$