Question			Marks
1	1	**All marks AO1 (understanding)** Simpler for a machine/computer to evaluate (**A.** easier **R.** to understand); Simpler to code algorithm; Do not need brackets (to show correct order of evaluation/calculation); **A.** RPN expressions cannot be ambiguous as BOD Operators appear in the order required for computation; No need for order of precedence of operators; No need to backtrack when evaluating; **Max 2**	**2**
1	2	**All marks AO1 (understanding)** (Starting at LHS of expression) push values/operands on to stack; **R.** if operators are also pushed onto stack, unless they are immediately popped off the stack Each time operator reached pop top two values off stack (and apply operator to them) // Each time operator reached pop required number of values off stack (and apply operator to them); Push result (of applying operator) to stack; When end of expression is reached the top item of the stack is the result // when end of expression is reached pop one value off the stack; **Max 3** if any errors **Max 3** if more than one stack used **Note for examiners:** award 0 marks if description is not about a stack / LIFO structure even if the word “stack” has been used	**4**

Question			Marks
2	1	**Mark is for AO1 (understanding)** Reverse Polish (Notation) // RPN; **A.** Postfix	1
2	2	**All marks AO2 (apply)** 523*+4+;; **Mark as follows:** **1 mark:** 23* in expression; **1 mark:** correct order of operands with + symbols either side of the 4; **Max 1 mark if any errors**	2