

Table 4: Example: The Calculator Grammar and its goto table

Item	Production	Actions
$I_0$	$E' \rightarrow .E$ $E \rightarrow .T$ $E \rightarrow .EAT$ $T \rightarrow .F$ $T \rightarrow .TMF$ $F \rightarrow .(E)$ $F \rightarrow .o_p$	Establish Collection with Closure ( $E \rightarrow .E$ )
$I_1$	$E' \rightarrow E.$ $E' \rightarrow E.$ $E \rightarrow E.AT$ $A \rightarrow .+$ $A \rightarrow .-$	Apply Goto ( $I_0, E$ )  Apply to $A$
$I_2$	$E \rightarrow T.$ $T \rightarrow T.MF$ $M \rightarrow .*$ $M \rightarrow ./$	Apply Goto ( $I_0, T$ ) Closure on $.M$
$I_3$	$T \rightarrow F.$	Apply Goto ( $I_0, F$ ), no closure
$I_4$	$F \rightarrow (.E)$ $E \rightarrow .T$ $E \rightarrow .EAT$ $T \rightarrow .F$ $T \rightarrow .TMF$ $F \rightarrow .(E)$ $F \rightarrow .o_p$	Apply Goto ( $I_0, ($ )
$I_5$	$F \rightarrow o_p.$	Apply Goto ( $I_0, o_p$ )
$I_6$	$E \rightarrow EA.T$ $T \rightarrow .F$ $T \rightarrow .TMF$ $F \rightarrow .(E)$ $F \rightarrow .o_p$	Apply Goto ( $I_1, A$ ) closure
$I_7$	$A \rightarrow +.$	Apply Goto ( $I_1, +$ )
$I_8$	$A \rightarrow -.$	Apply Goto ( $I_1, -$ )
$I_9$	$T \rightarrow TM.F$ $F \rightarrow .(E)$ $F \rightarrow .o_p$	Apply Goto ( $I_2, M$ ) Closure on $.F$
$I_{10}$	$M \rightarrow *.$	Apply Goto ( $I_2, *$ )
$I_{11}$	$M \rightarrow ./$	Apply Goto ( $I_2, /$ )