Design SLR Parser

$S \to (S)S$ | $Follow(S) = \{), \$ \}$

$S \to \epsilon$

i/p → ( ) ( ) $

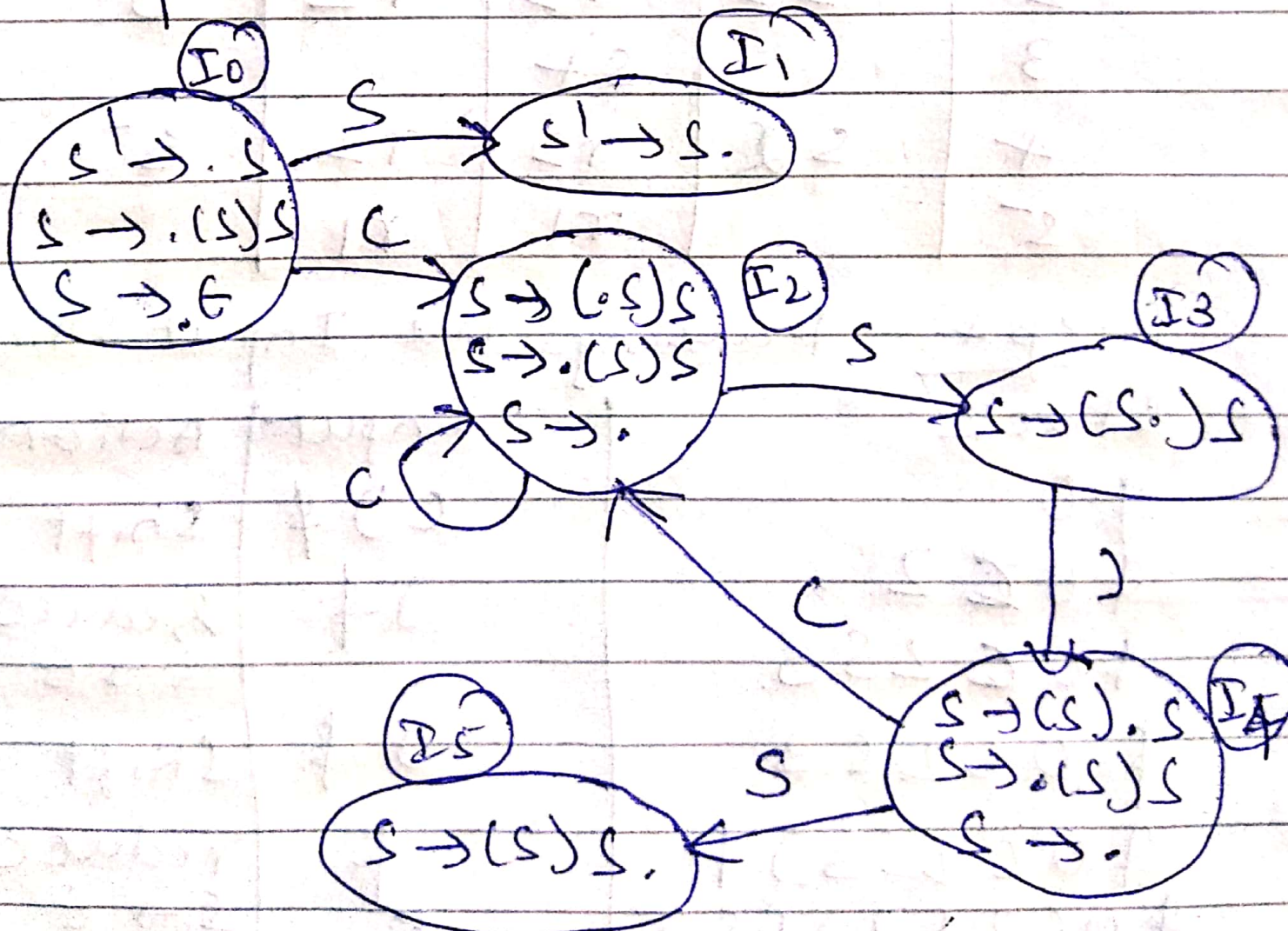
Step 1: Augument the grammar

$S' \to S$

$S \to (S)S$ — (1)

$S \to \epsilon$ — (2)

Step 2: Design goto graph.



Step3: Construction of SLR table

States	Action			Goto
	(	)	$	S
0	S2	r2	r2	1
1			Accept	
2	S2	r2	r2	3
3		S4		
4	S2	r2	r2	5
5		r1	r1	

Step4: Parsing the Input string

Stack	Input	Action
$0	(()$	shift
$0(2	())$	reduce
$0(2S3	())$	S → ε
$0(2S3	))$	shift
$0(2S3)	$	reduce
$0(2S3)4	$	S → ε
$0(2S3)4S5	$	reduce
$0S1	$	S → (S)S

Accept.