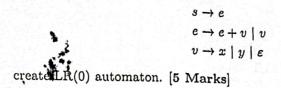
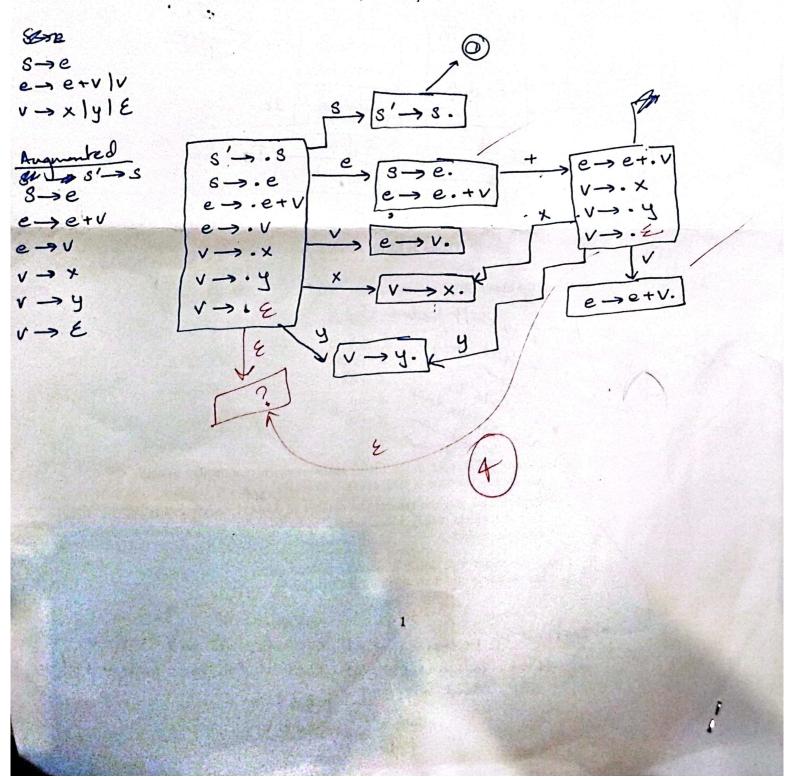


Compiler Construction Quiz-3

1. Given CFG:





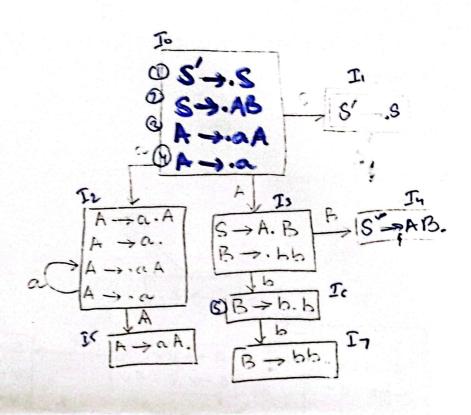


Figure 1: LR(0) automaton

2. Given the above LR(0) automaton and CFG

 $A \rightarrow aA$

Identify the state(s) in the LR(0) automaton where a conflict arises and specify the type of each conflict. [3 Marks] 316

 Explain how you can resolve the conflict in SRL(1). After resolution of conflicts specify which actions to be taken on specific input symbols.[4 Marks]

Please write your text clearly in bulleted fashion which is easier to check and has complete information. [3+4=7 Marks]

Follow (B) = 2 b 3

(1)

Create parse tree using the grammar of the last question for string aabb.
Must clearly show SLR(1) stack's creation and manipulation otherwise
no marks will be given. [7 Marks]

State	Input »	Stack	Action Stift 2
62	E	abby	8142
022	og og	boot	Shift 2(.5)
0	**	abbo	
02	PAA A	abbo	Reduce $A \rightarrow a$ Shift 2
04	Aa	668 668	RECORD ASSANTA
02	Aa	KS	Reduce 3
025	A	64 .	Shiff 3 Swft 6
03	Ab	•	Reduce B->bb
036	A65 AB	\$	Reduce & G AB.
03	M S	\$1\$	ACCEPT

