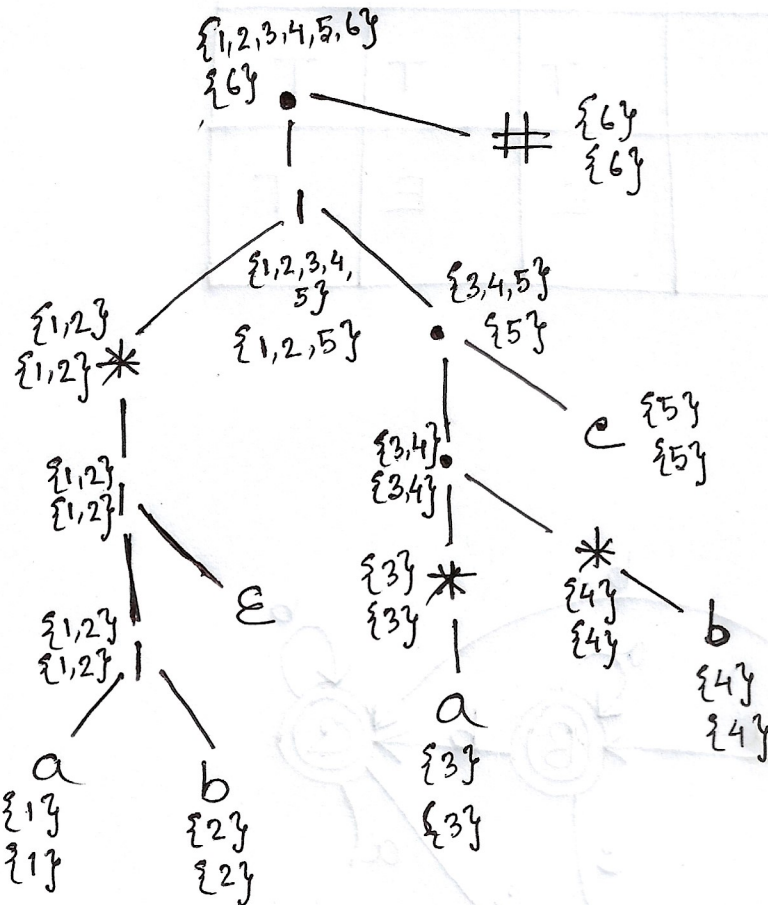


Ans. to Q No - 1

The augmented regex $\Rightarrow (a|b| \epsilon)^* | (a^*b^*)c \#$

The syntax tree with firstpos and lastpos:



Symbol node	Node	Followpos
a	1	$\{1,2,6\}$
b	2	$\{1,2,6\}$
a	3	$\{3,4,5\}$
b	4	$\{4,5\}$
c	5	$\{6\}$
#	6	\emptyset

D-states	a	b	c
$\{1,2,3,4,5,6\} = A$	A	B	C
$\{1,2,4,5,6\} = B$	D	B	C
$\{6\} = C$	T	T	T
$\{1,2,6\} = D$	D	D	T

DFA

