Question 1

A)

<cond>

|

"if" <test> "then" <stmt>

| |

T1 <cond>

|

"if" <test> "then" <stmt> "else" <stmt>

| | |

T2 "A" "B"

B)

<cond>

|

"if" <test> "then" <stmt> "else" <stmt>

| | |

T1 <cond> "B"

|

"if" <test> "then" <stmt>

| |

T2 "A"

Question 2

A) if T1 then {if T2 then {A} else {B}}

B) if T1 then {if T2 then {A}} else {B}

Question 3

<cond>

|

"if" <test> "then" <stmt> "else" <stmt>

| | |

T1 <cond> "C"

|

"if" <test> "then" <stmt> "else" <stmt>

| | |

T2 "A" "B"