1- Let M be the following DFAs

(a)- Write down four string accepted by M and the sequence of configurations that

shows this.

(b)- Write down four strings not accepted by M

1- First DFA:

- Accepted strings

-abb

-bba

-baa

baba-

- Unaccepted strings

-abba

-babb

-bbaaa

-abbbab

2- Second DFA:

- Accepted strings

-aa

-aaab

-bb

bbaa-

- Unaccepted strings

-aca

-bbb

-aaa

bbaaa-

2- Convert to regular expressions:

(a)- ab

(b)- ac\*b

(c)- ac\*(b+d)

(d)- (a+b)\*a(a+b)(a+b)

(i)- (a(a+b)((a+b)(a+b))\*)+(b(a+b) )((a+b)(a+b))\*)

(ii)- b\*a(a+b) )((a+b)(a+b))\*

(iii)- ((0\*11\*00)\* (0\*11\*01))+ ((0\*11\*00)\* (0\*11\*010))\* ((0\*11\*00)\* (0\*11\*01))////////////

(iv)- 0\*+0\*

2- Draw DFA to the following languages:

Look at images-