

7) i)

Scanned Symbol		
	0	1
q1	Rq2	Oq1
q2	Rq10	Oq3
q3	Rq4	
q4	Rq5	Rq4
State q5	Lq6	Rq5
q6	Lq7	Lq6
q7	Rq9	Lq8
q8	Rq1	Lq8
q9	Rq9	
q10		

ii) 0 1 1 0    0 0 1 0    0 0 1 0    0 0 0 0  
           1                    1                    2                    3  
 0 0 0 0    0 0 0 0 0    0 0 0 0 1    0 0 0 0 1  
           4                    5                    6                    6  
 0 0 0 0 1    0 0 0 0 1    0 0 0 0 1  
           7                    9                    9

b) 0 1 1 1 0    0 0 1 1 0    0 0 1 1 0    0 0 0 1 0  
           1                    1                    2                    3  
 0 0 0 1 0    0 0 0 1 0    0 0 0 1 0 0    0 0 0 1 0 1  
           4                    4                    5                    6  
 0 0 0 1 0 1    0 0 0 1 0 1    0 0 0 1 0 1    0 0 0 1 0 1  
           6                    7                    8                    1  
 0 0 0 0 0 1    0 0 0 0 0 1    0 0 0 0 0 1  
           1                    2                    10

c) 0 1 1 1 1 0    0 0 1 1 1 0    0 0 1 1 1 0    0 0 0 1 1 0  
           1                    1                    2                    3  
 0 0 0 1 1 0    0 0 0 1 1 0    0 0 0 1 1 0    0 0 0 1 1 0 0  
           4                    4                    4                    5  
 0 0 0 1 1 0 1    0 0 0 1 1 0 1    0 0 0 1 1 0 1  
           6                    6                    7