

Assignment - 01

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Section: 11

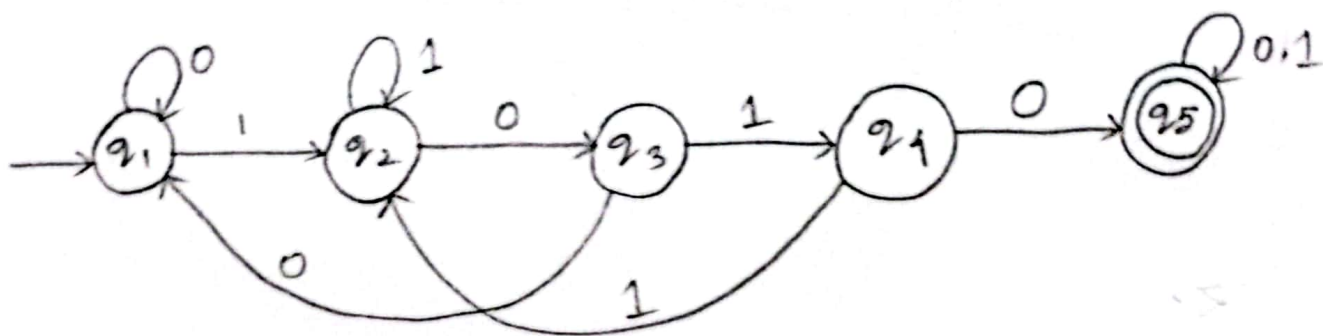
CSE 331

Date: 21.11.2024

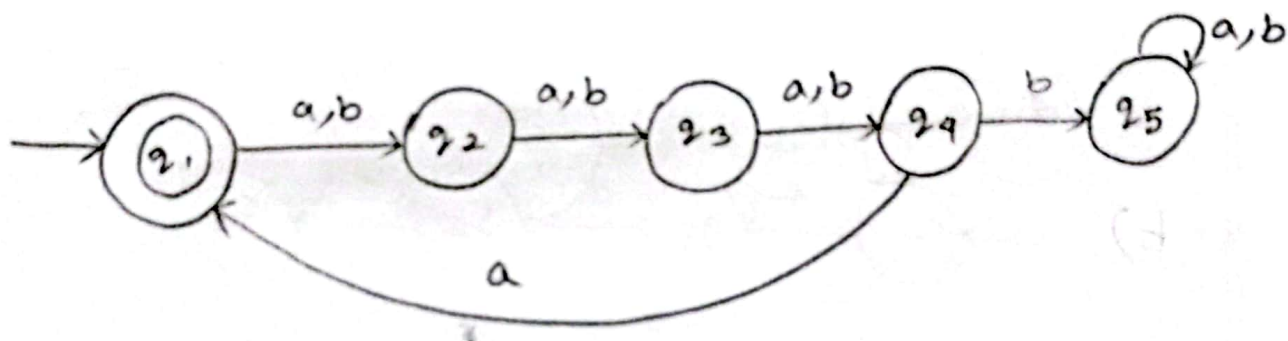
1.

00100101011

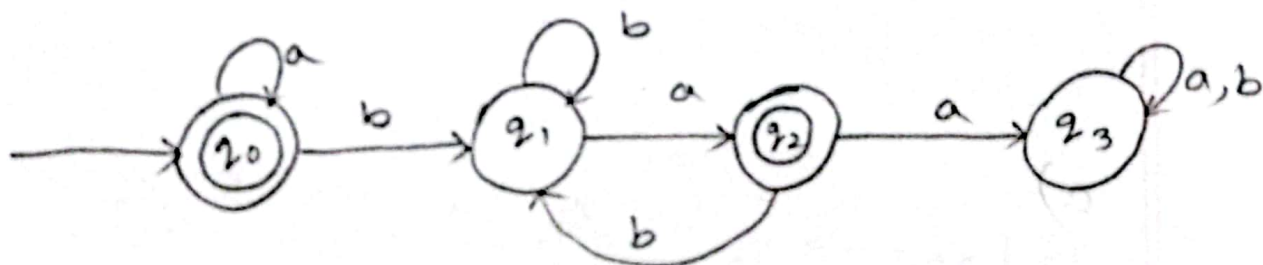
a)



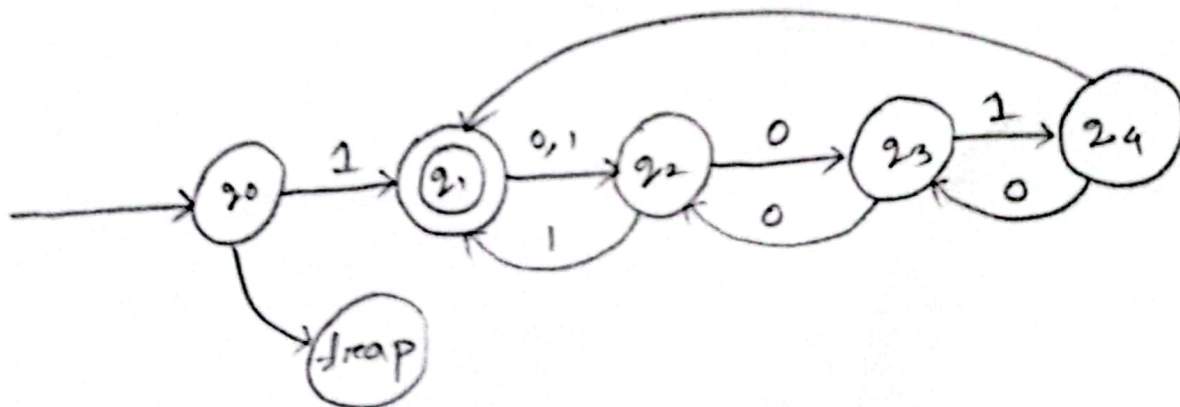
b)



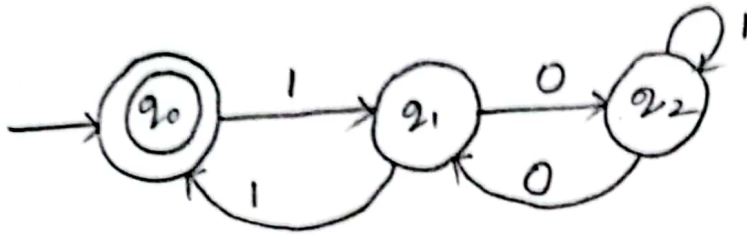
c)



d)

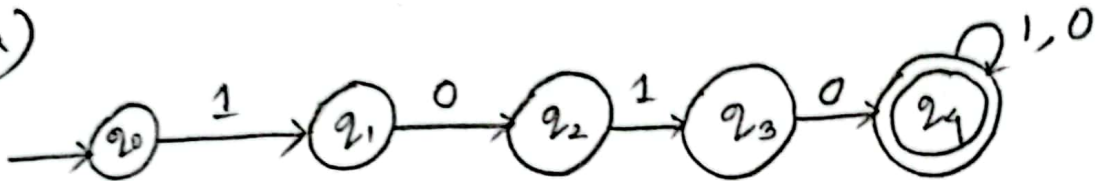


e)

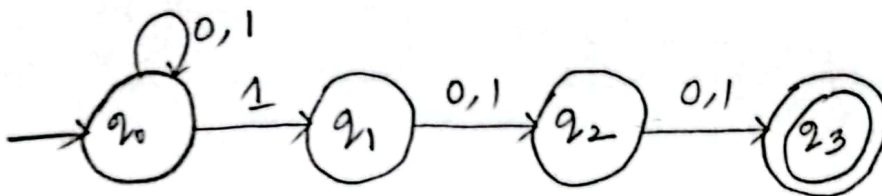


z.

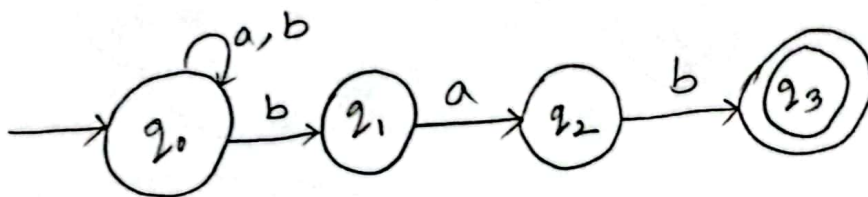
a)

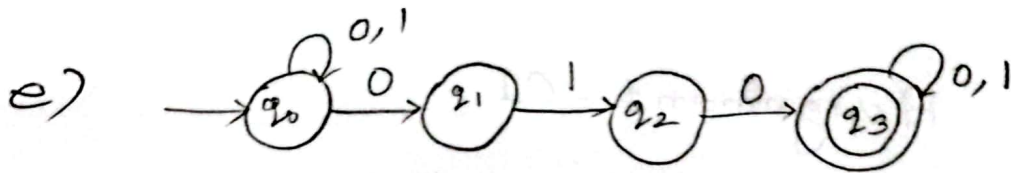
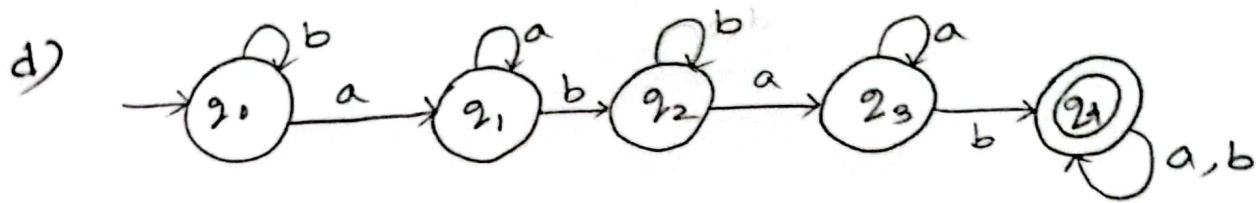


b)



c)





3.

a) $(0+1)(0+1)^*$

b) ~~$(a(a+b)^*a)(b(a+b)^*b) + a+b$~~

c) $01(0+1)^* + (0+1)^*01 + (0+1)^*01(0+1)^*$

d) $a^*(ab(aa)a^*)^*$

e) $1011(0+1)^*$

b) $a(aa|ab|ba|bb)a + b(aa|ab|ba|bb)b + a+b$