

Course: Program: Duration: Paper Date: Section: Theory Of Automata BS (Computer Science) 10 Minutes

ter Science)

Course Code:
Semester:
Total Marks:
Weight
Page(s):

CS-3005 Spring 4 2+8

Exam: Quiz 1

Roll No.

Instruction/Notes: Use back side of this ass for rough work. Write down final answers only in the given space provided.

Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO1]

L = {x | x ∈ {a,b}*; x contains at most 2 b's and odd number of a's}

Solution:	
L = {)

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Exam:

Theory Of Automata **BS (Computer Science)** 10 Minutes

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Course Code: CS-3005 Spring 24 8+2

Page(s):

Roll No.

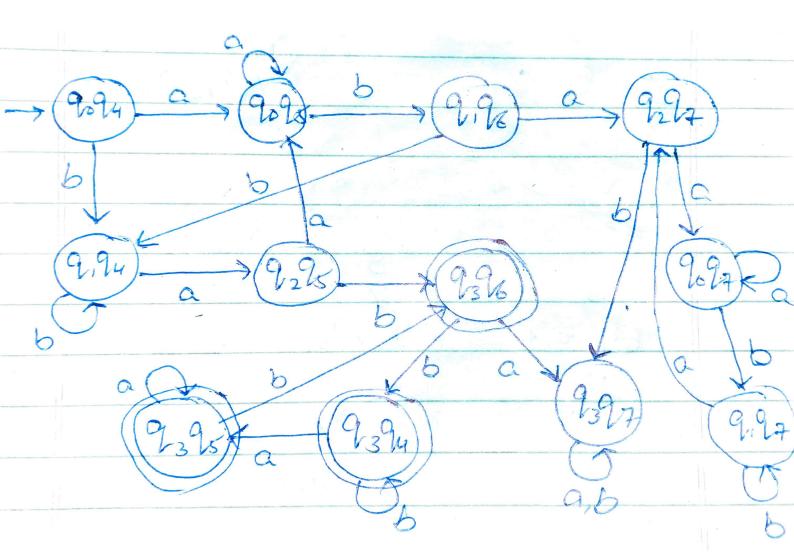
Instruction/Notes: Use back side of this ass for rough work. Write down final answers only in the given space provided.

Quiz 1

Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO1]

L= {x | x over {a, b} and x has the substring bab but does not have the substring aba}

Solution:	
L = {	}



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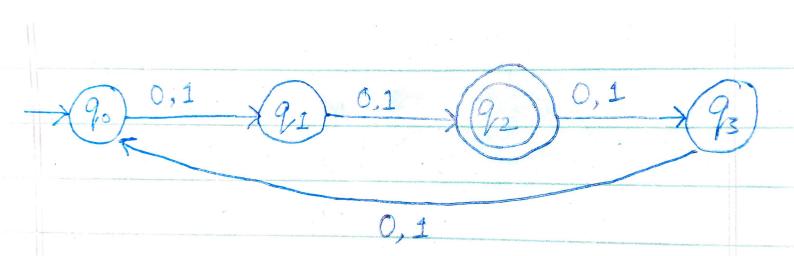
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Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO1]

L= {x | x over {0, 1} and |x| is divisible by 2 but not divisible by 4}

Solution:	
L = {	}



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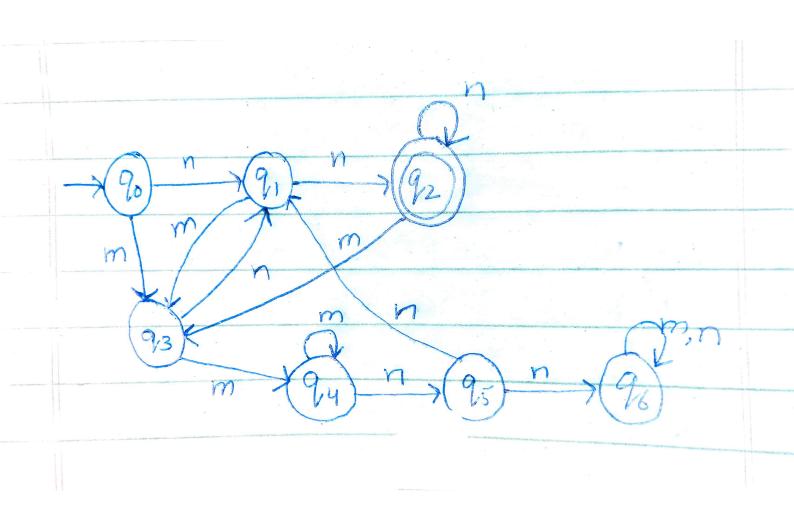
Quiz 1 Roll No.

Instruction/Notes: Use back side of this ass for rough work. Write down final answers only in the given space

Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO 1]

L = {x | x ∈ {m, n}*: x does not contains 'mmnn' as a substring and does ends on 'nn'}

Solution:	
L = {	}





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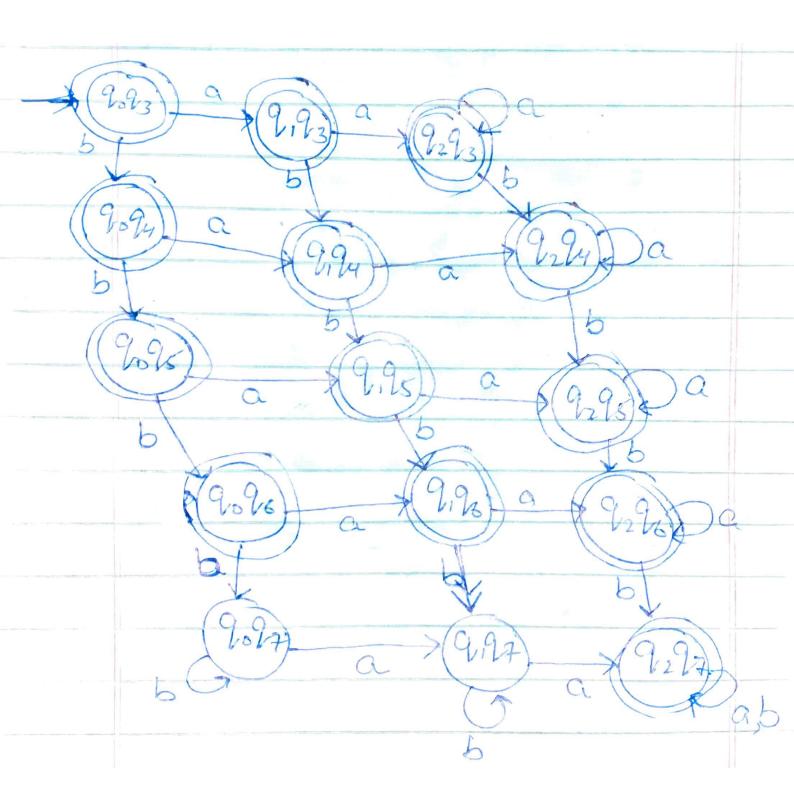
Roll No.

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Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO 1]

L = {x over {a, b} and x contains at least 2 'a' or maximum of 3 'b' }

Solution:	
L = {	}





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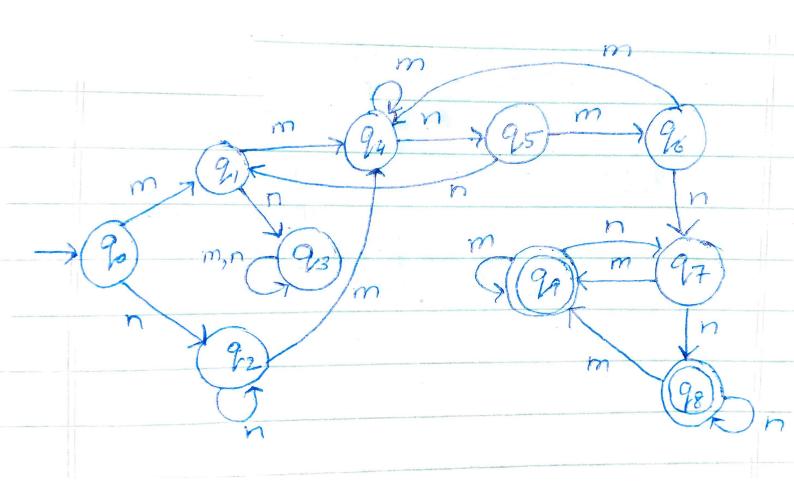
Use back side of this ass for rough work. Write down final answers only in the given space provided

Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO1]

 $L = \{x \mid x \in \{m, n\}^*; x \text{ contains 'mnmn' as a substring but does not ends on 'mn' and does not start with 'mn'}\}$

Q1b: Construct a DFA for the given Language given in Q1a. You have to draw a state diagram? [CLO 2]





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Q1a: Write 10 valid words for the Language given below in canonical order (increasing order of length)? [CLO 1]

L= {x | x over {a, b} and |x| is even and x contains odd number of 'a'}

Solution:	
L = {	}

Q1b: Construct a DFA for the given Language given in Q1a. You have to draw a state diagram? [CLO 2]