

Course:
Program:
Duration:
Paper Date:
Section:

Theory Of Automata BS (Computer Science) 15 Minutes Course Code: Semester: Total Marks: Weight Page(s):

CS-3005 Spring 23 10+10

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]

 $L = \{x \mid x \in \{0,1\}^*; \text{ where } x \text{ has an odd length and odd number of 1's } \}$

Solution:	
L = {	}



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

 $L = \{x \mid x \in \{a,b\}^*; \text{ where } x \text{ does not contain the substring 'baba' } \}$

Solution:	
L = {	}



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Exam:

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CS-3005 Spring 23 10+10

Page(s):

Quiz 1

Roll No.

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

 $L = \{x \mid x \in \{a,b\}^*; x \text{ contains even number of a's and each a is followed by at most one 'b'}\}$

Solution:	
L = {	}



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Page(s):

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

 $L = \{x \mid x \in \{a,b\}^*; x \text{ contains at most 2 b's and odd number of a's} \}$

Solution:	
L = {	}



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

 $L = \{x \mid x \in \{0,1\}^*; \text{ 2nd last digit in } x \text{ must be '1'}\}$

Quiz 1

Solution:		
L = {	}	



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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'}

Solution:	
L = {	}



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

 $L = \{x \mid x \in \{0,1\}^*; |x| \text{ should be divisible by 2 and contains odd number of '0'}\}$

Solution:	
L = {	}



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Exam:

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15 Minutes Total | Weight

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

 $L = \{x \mid x \in \{m, n\}^*; x \text{ does not contains 'mmnn' as a substring and does ends on 'nn'}\}$

Solution:	
L = {	}



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

 $L = \{x \mid x \in \{a, b\}^*; x \text{ contains both 'aba' and 'bab' as a substring'}\}$

Quiz 1

Solution:	
L = {	}



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

L = $\{x \mid x \in \{0,1\}^* \mid x \text{ contains even number of 0's but does not ends on '01'}\}$

Solution:	
L = {	}