



Quiz# 2 – Theory Paper: Theory of Automata V3

Instructor: Rana Marwat Hussain

Name # Ashat Munir

SID # 8202026657 Signature# _____

Total Marks: 10

Note: (A) Attempt all Questions.

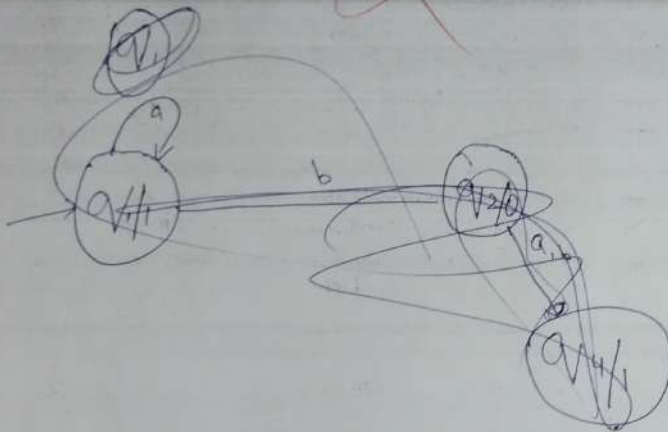
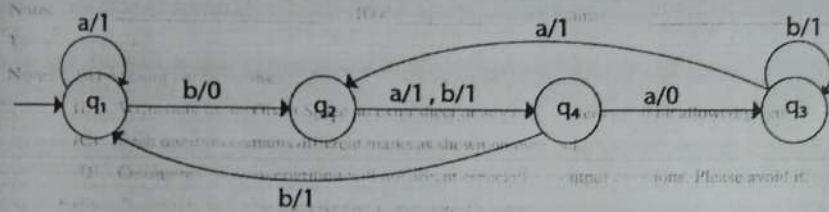
(B) Write only in the Given Space no extra sheet or any other material will be allowed/given.

(C) Each question contains different marks as shown on the label.

(D) Cutting/rewriting/overwriting will not accept especially in output questions. Please avoid it.

(E) Time for completing each section is mentioned separately.

Q1. Convert the following Mealy machine into equivalent Moore machine.



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Quiz# 2 - Theory Paper: Theory of Automata V3

Instructor: Rana Marwat Hussain

Name # MUSAMA JAVED

SID # F2020766137

Signature#

Total Marks: 10

Note: (A) Attempt all Questions.

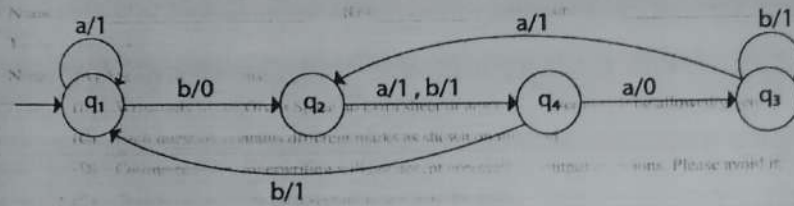
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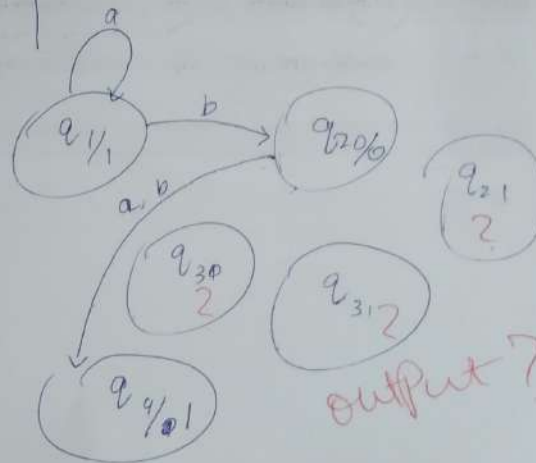
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Q1. Convert the following Mealy machine into equivalent Moore machine.



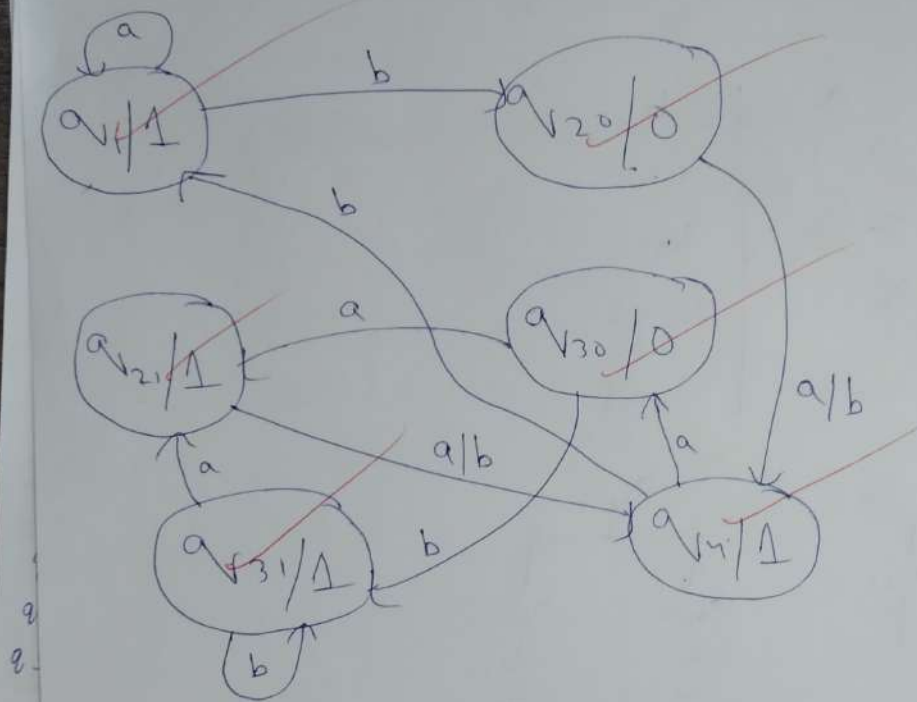
States	a	b
q1	q1 = 1	q2 = 0
q2	q4 = 1	q4 = 1
q3	q2 = 1	q3 = 1
q4	q3 = 0	q1 = 1

States	a	b
q1	q1 = 1	q2a = 0
q2a	q4 = 1	q4 = 1
q21	q4 = 1	q4 = 1
q3a	q2a =	



output?

Q	a	b	1
q_1	$q_1=1$	$q_{20}=0$	1
q_{20}	$q_4=1$	$q_4=1$	0
q_{21}	$q_4=1$	$q_4=1$	1
q_{30}	$q_{21}=1$	$q_{31}=1$	0
q_{31}	$q_{21}=1$	$q_{31}=1$	1
q_4	$q_{30}=0$	$q_1=1$	1





UNIVERSITY OF MANAGEMENT & TECHNOLOGY, LAHORE CAMPUS
SST, Department of Computing (CS)

Quiz# 2 - Theory Paper: Theory of Automata V3

Instructor: Rana Marwat Hussain

Name # Ahmad Ashfaq

SID # F26266602 Signature# [Signature]

Total Marks: 10

Note: (A) Attempt all Questions.

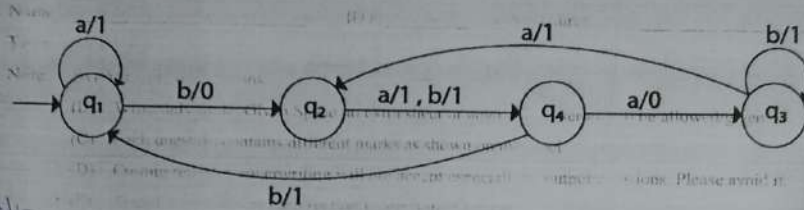
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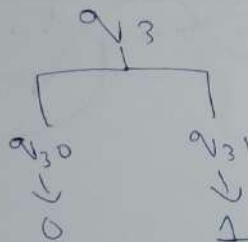
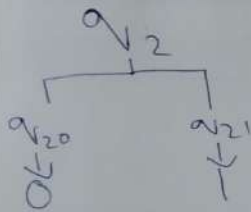
(E) Time for completing each section is mentioned separately.

Q1. Convert the following Mealy machine into equivalent Moore machine.



Sol:-

Q	a	b
q ₁	q ₁ = 1	q ₂ = 0
q ₂	q ₄ = 1	q ₄ = 1
q ₃	q ₂ = 1	q ₃ = 1
q ₄	q ₃ = 0	q ₁ = 1





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Instructor: Rana Marwat Hussain

Name # _____ SID # _____ Signature# _____

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