

TUTORIAL OF THEORY OF COMPUTATION

Course Code: CSE-3227

Course Title: Theory of Computation

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Section: **7(C)**Batch: **50**th

Submitted to:

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Lecturer

Computer Science & Engineering

Ans no: 1

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2 or, or, or 2 2 org, org minimized Transition table:

1- Equivalent:

3 ao 3 3 a, a2 3 2 a3, a3 3

2-Equivalent:

2003 201, 023 203, 04

Transition table

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3fate	=0.1	\1
-> 90 ×	V 1	√ 2
a,	9/2	2/3
[12.	a2	a ₄
(N ₃)	~ ~3	V3
(V ₁)	~ ~ ~	N ₄
14- /1	787	

9	ate	-0	1
-	= avo	0,02	1 2 2
1	a, a2	a ₂	2344
	9,3 9,4)	a, a,	2,24

$$\rightarrow \underbrace{\begin{pmatrix} 0,1 \\ 0,1 \end{pmatrix}} \underbrace{\begin{pmatrix} 0,1 \\ 0,1 \end{pmatrix}} \underbrace{\begin{pmatrix} 0,1 \\ 0,1 \end{pmatrix}} \underbrace{\begin{pmatrix} 0,1 \\ 1 \end{pmatrix}} \underbrace{\begin{pmatrix} 0,1 \\ 1$$

Ans no: 2

$$P.H.S = a^* + .abb^* a$$
 $= a^* + a (\Lambda + bb^*) a | P^* = \Lambda + RP^*$
 $= (\Lambda + aa^*) + aa + abb^* a$
 $= \Lambda + (aa^* + aa) + abb^* a | P^* = \Lambda + RP^*$
 $= \Lambda + aa^* + abb^* a | P^* = \Lambda + RP^*$
 $= a^* + abb^* a | P^* = \Lambda + RP^*$

. RHS = L-H.S

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(1000) (1/2) (10)

Ans no: 3

Ans no: 3

$$a_1 = E + a_1 0 \rightarrow 0$$
 $a_2 = a_1 + a_2 + a_3 0 + a_3 + a_4 + a_5 +$

18+2=9/ *90+9/ d=15/

1 K = C + KE

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1 1 1

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Marsh & Lat

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