Total No. of Pages : 4

Roll No.

6E3018

B.Tech VI Sem. (Main/Back) Exam. April-May, 2012 Computer Engg. 6CS5 Theory of Computation

Time : 3 Hours

Maximum Marks : 80 Min. Passing Marks : 24

[Contd...

Instructions to Candidates:

Attempt any five questions. Selecting one question from each unit. All Question carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/ calculated must be stated clerly.

Use of following supporting material is permitted during examination.

._____Nil____ 2. ____Nil____

Unit - I

- (a) Give the non-deterministic finite Automation to accept the following language : "The set of strings over alphabet {0,1,2,3,.....,9} Such that final digit has never appeared before".
 - (b) Construct a Mealy Machine which is equivalent to Moore Machine given in Table (i)

Present State	Next State		O/P
k. Hain the follow	a=0	a=1	
q ₀	q ₃	q ₁	0
q ₁	q ₁	q ₂	1
q ₂	q ₂	q ₃	0
q ₃	q ₃	q_0	0
	Table -	1	

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