6E3203

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B.Tech VI Semester (Main/Back) exam. May, 2012
Computer Engg.
6CS3 Theory of Computation
Common to CS & IT

Time : 3 Hours   **Maximum Marks : 80**
                                             Min. Passing Marks : 24

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.*
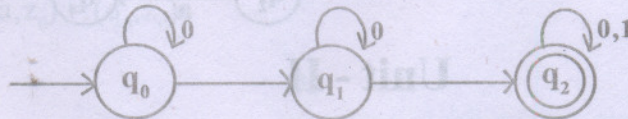
Units of quantities used/ calculated must be stated clerly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. _____**Nil**_____   2. _____**Nil**_____

Unit-1

1. (a) What is Automata? Explain finits Automata with neat & labeled diagram. Also check acceptability of string 101101 for the given Automata.   8

(b) Construct a Moore machine equivalent to the Mealy machine M defined by the table given below :   8