Mid Semester Examination – CS205M

Full marks – 27   2$^{\text{nd}}$ October, 2012

Part A

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1. Copy the following text at the very beginning of your answer script and sign below it.   [2 marks]

   I promise not to commit any academic dishonesty.

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2. Given a regular expression r, prove that there exists a finite automaton M s.t. $L(r) = L(M)$.   [15 marks]

3. Show the equivalence of a final state pushdown automaton and an empty stack pushdown automaton.   [10 marks]