

**Question Paper Code : 57285**

B.E. / B.Tech. DEGREE EXAMINATION, MAY / JUNE 2016

## References

Computer Science and Engineering

CS6883 THEORY OF COMPUTATION

**Received 30 July**

### Three = Three Numbers

**2011年12月10日 星期六**

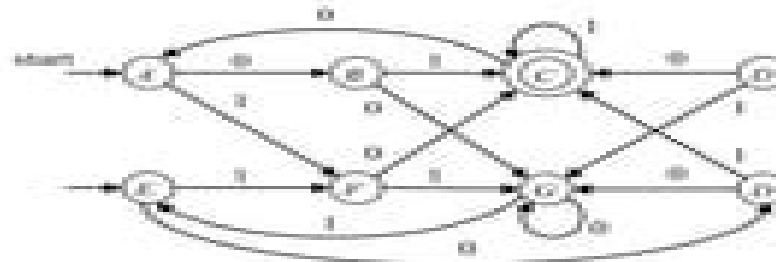
### Answer All Questions

**Part A – (10 × 2 = 20 marks)**

1. Draw a non-deterministic finite automata to accept strings containing the substring 0101.
2. State the pumping lemma for regular languages.
3. What do you mean by null production and unit production? Give an example.
4. Construct a CFG for set of strings that contain equal number of a's and b's over  $\Sigma = \{a, b\}$ .
5. Does a Push down Automata have memory? Justify.
6. Define Push down Automata.
7. What are the differences between a Finite automata and a Turing machine?
8. What is Turing machine?
9. When is a Recursively Enumerable language said to be Recursive?
10. Identify whether 'Tower of Hanoi' problem is tractable or intractable. Justify your answer.

**Part III – (5 x 16 = 80 marks)**

- 11 (a) (i) Construct a NFA that accepts all strings that end in 01. Give its transition table and extend transition function for the input string 00101. Also construct a DFA for the above NFA using subset construction method. (10)
- (ii) Prove the following by principle of induction.  $\sum_{i=0}^{n-1} x^i = \frac{n(x+1)-1}{x}$ . (6)
- Or
- (b) (i) What is Regular Expression? Write a regular expression for set of strings that consists of alternating 0's and 1's. (8)
- (ii) Write and explain the algorithm for minimization of a DFA. Using the above algorithm minimize the following DFA. (8)



# Question Paper For Engineering Science 0april 2n

**LP Steffe**



**Question Paper For Engineering Science 0april 2n:**

## **Question Paper For Engineering Science 0april 2n** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Question Paper For Engineering Science 0april 2n**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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