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Name : .....

# Third Semester B.Tech. Engineering Degree (Regular/Supplementary) Examination, November 2010 2K6 CS/IT 305 : SWITCHING THEORY AND LOGIC DESIGN

Time: 3 Hours

Max. Marks: 100

Instruction: Answer all questions.

- a) Give symbols and truth tables of electronic gates and contact networks.
  - b) Define sum of products and product of sum with examples.
- c) What are universal gates and its properties? Give suitable example.
  - d) Write a note on look ahead adders.
  - e) What do you mean by path sensitisation?
  - f) What do you mean by programmable logic arrays? Give example.
  - g) Write a note on Flip-flops. Give truth table for SR and JK Flip-flops.
  - h) What do you mean by synchronous counter? How it differs from asynchronous counter? (5×8=40)
- 2. A) i) Simplify following K-map using sum of products.

10

AB⊸ CD ⊥	00	01	11	10
00	1		1	1
01	1			
11	1		1	1
10	1	1	1	1

verify using truth table.

What do you mean by normal and canonical forms? Give suitable example.

5

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