



Reg. No. :

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.

1. 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

verify using truth table.

- ii) What do you mean by normal and canonical forms ? Give suitable example.
5

OR

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