



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

# High Speed Switching Architecture University Question Paper

**Allan Gottlieb, Yao Li, Eugen Schenfeld**



## **High Speed Switching Architecture University Question Paper:**

Japan Telecommunications ,1988      **Technical Program, Conference Record** ,1999      Proceedings of the ...  
Conference on Information Sciences and Systems ,1994      **Conference Record** ,2001      **Conference Proceedings** ,1989  
IEEE International Symposium on Information Theory ,      The Railway and Engineering Review Walter Mason  
Camp,1910      1994 IEEE 13th Annual International Phoenix Conference on Computers and Communications ,1994  
**Physics Briefs** ,1993      *Proceedings of the Third International Conference on Massively Parallel Processing Using*  
*Optical Interconnections* Allan Gottlieb,Yao Li,Eugen Schenfeld,1996 Contains papers from the October 1996 conference  
focusing on the potentials and impacts that optical interconnections can have on massively parallel processing Offers  
sections on comparative studies for optical interconnects interconnection networks and system architectures WDM in MPP  
systems tradeoffs in intra system optical interconnects scalable interconnection networks architecture issues guided wave  
components for optical interconnects and multiprocessor networks and systems Includes discussion of the roles of university  
and industry in developing systems For researchers in computer science engineering and optics No index Annotation  
copyrighted by Book News Inc Portland OR      **The Second RIKEN International Symposium on Symbolic and**  
**Algebraic Computation by Computers** Nobuyuki Inada,Takashi S?ma,1985 This proceedings is based on research work on  
formula manipulation and computer algebra culminating in the design and construction of a formula manipulation machine at  
RIKEN known as the FLATS project      *Fourth IEE Conference on Telecommunications, 18-21 April 1993* Institution of  
Electrical Engineers. Electronics Division,1993      **NBS Special Publication** ,1973      Los Angeles Magazine ,2003-11 Los  
Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative  
reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and  
news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and  
interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is  
intensely interested in a lifestyle that is uniquely Southern Californian      *Japanese Technical Abstracts* ,1987  
**Proceedings of the 33rd IEEE Conference on Decision and Control** IEEE Control Systems Society,1994      **ESN**  
**Information Bulletin** ,1989      **Library & Information Science Abstracts** ,2006      **Proceedings of the 36th Annual**  
**Symposium on Simulation** ,2003 The growing awareness of the effects that simulation is having on the way we design our  
computing communication and control systems is leading to an increased demand for a better understanding of all aspects of  
simulation ANSS 03 covers broad topics in the areas of distributed systems network modeling and advances in simulation  
methodology and practices      **Annual International Phoenix Conference on Computers and Communications:**  
**Conference Proceedings** Edwin Sprott Towill,1976

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