



M.A.M. SCHOOL OF ENGINEERING
TIRUCHIRAPPALLI
DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING

DIGITAL LAB
CS2207
LAB MANUAL

Syllabus

S.No.	Name of the experiment	Page no.
1.	Verification of Boolean Theorems using Digital Logic Gates	4
2.	Design and Implementation of Combinational Circuits using Basic Gates for Arbitrary Functions, Code Converters, Etc.	10
3.	Design and Implementation of 4-Bit Binary Adder / Subtractor using Basic Gates and MSI Devices	17
4.	Design and Implementation of Parity Generator / Checker using Basic Gates and MSI Devices	24
5.	Design and Implementation of Magnitude Comparator	21
6.	Design and Implementation of Application using Multiplexers/Demultiplexers	26
7.	Design and Implementation of Shift Registers	33
8.	Design and Implementation of Synchronous and Asynchronous Counters	31
9.	Simulation of Combinational Circuits using Hardware Description Language (VHDL / Verilog HDL Software Required)	35
10.	Simulation of Sequential Circuits using HDL (VHDL / Verilog HDL Software Required)	37

1

EXP NO: 1

STUDY OF LOGIC GATES

AIM:

To study about logic gates and verify their truth tables.

APPARATUS REQUIRED:

Sl. No.	COMPONENT	SPECIFICATION	QTY
1.	AND GATE	IC 7408	1
2.	OR GATE	IC 7432	1
3.	NOT GATE	IC 7404	1
4.	NAND GATE I/P	IC 7400	1
5.	NOR GATE	IC 7402	1
6.	X-OR GATE	IC 7485	1
7.	NAND GATE I/P	IC 7410	1
8.	IC TRAINER KIT	-	1
9.	PATCH CORD	-	14

THEORY:

Circuit that takes the logical decision and the decisions are called logic gates. Each gate has one or more input and only one output. OR, AND and NOT are basic gates. NAND, NOR and X-OR are known as universal gates. Basic gates form these gates.

AND GATE:

The AND gate performs a logical multiplication commonly known

OR GATE:

The OR gate performs a logical addition commonly known as OR function. The output is high when any one of the inputs is high. The output is low level when both the inputs are low.

NOT GATE:

The NOT gate is called an inverter. The output is high when the input is low. The output is low when the input is high.

NAND GATE:

The NAND gate is a contraction of AND-NOT. The output is high when both inputs are low and any one of the input is low. The output is low level when both inputs are high.

NOR GATE:

The NOR gate is a contraction of OR-NOT. The output is high when both inputs are low. The output is low when one or both inputs are high.

X-OR GATE:

The output is high when any one of the inputs is high. The output is low when both the inputs are low and both the inputs are high.

PROCEDURE:

- Connections are given as per circuit diagram.
- Logical inputs are given as per circuit diagram.
- Observe the output and verify the truth table.

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Robert W. Widing



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CSCI A110, Introduction to Computers and Computing ,2007 *UIC Chem 100* Robert W. Widing,2012 General Chemistry I SCC201 Lab Manual Dionne Miller,2015-03-02 **Integrated Science Course 1** ,2005* **Course Mastery Supplement** Lee Dahringer,Dennis Guseman,Stanley Garfunkel,1979-02-01 Live Lab Manual for State Fair Community College Chemistry Courses Shayna Burchett,2017-05-08 Integrated Science Lab Manual Shonique R. Ebanks,Shonique R Ebanks Msc,2016-07-20 This Science Lab Manual consists of over 30 lab based experiments for students aged 12 17 years The manual also guides students on how to write up experiments and outlines for teachers the skills being tested for and suggestions for discussions *Pkg Acp Cer Chem 1101 Lab Manual* Brooks/Cole,2011-03-07 **Chem 1280 Lab Manual** Norman E. Griswold,2017 **Exam 70-215 Project Lab Manual** Laudon,2003-07

Decoding **Cs2207 Lab Manual**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Cs2207 Lab Manual**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Cs2207 Lab Manual

1. Understanding the eBook Cs2207 Lab Manual
 - The Rise of Digital Reading Cs2207 Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Cs2207 Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cs2207 Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cs2207 Lab Manual
 - Personalized Recommendations
 - Cs2207 Lab Manual User Reviews and Ratings
 - Cs2207 Lab Manual and Bestseller Lists

5. Accessing Cs2207 Lab Manual Free and Paid eBooks
 - Cs2207 Lab Manual Public Domain eBooks
 - Cs2207 Lab Manual eBook Subscription Services
 - Cs2207 Lab Manual Budget-Friendly Options
6. Navigating Cs2207 Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Cs2207 Lab Manual Compatibility with Devices
 - Cs2207 Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cs2207 Lab Manual
 - Highlighting and Note-Taking Cs2207 Lab Manual
 - Interactive Elements Cs2207 Lab Manual
8. Staying Engaged with Cs2207 Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cs2207 Lab Manual
9. Balancing eBooks and Physical Books Cs2207 Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cs2207 Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cs2207 Lab Manual
 - Setting Reading Goals Cs2207 Lab Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cs2207 Lab Manual
 - Fact-Checking eBook Content of Cs2207 Lab Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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