



## Government Girls' Polytechnic, Bilaspur

Name of the Lab: Digital Electronics Lab

Practical: Digital Electronics Lab

Class :3<sup>rd</sup> Semester (ET&T), 3<sup>rd</sup> Semester (CS)  
FOR ET&T

Teachers Assessment: 10 End Semester Examination: 50

FOR CS

Teachers Assessment: 20 End Semester Examination: 50

### EXPERIMENT No- 1

**OBJECTIVE:** - Verify Truth Table of Logic Gates (AND, OR, NOT, NAND & NOR Gates).

**EQUIPMENT REQUIRED:** - All the basic gate mention in the fig.

**THEORY:** - There are different gates available in digital electronic filed. Which is used to perform the different tasks they are as follow:-

**AND GATE:** - This gate is used for the multiplication of two binary digits.

**OR GATE:** - This gate is used for the addition of two binary digits.

**NOT GATE:** - This gate gives the compliment of given binary digit.

**NAND GATE:** - This gate is used for giving compliment of multiplication of two binary digits.

**NOR GATE:** - This gate is used for giving compliment of the addition of two binary digits

### DAIGRAMS:-

2-input AND gate



A	B	Output
0	0	0
0	1	0
1	0	0
1	1	1

2-input OR gate



A	B	Output
0	0	0
0	1	1
1	0	1
1	1	1

1-input NOT gate

2-input NAND gate

# Polytechnic Electronics Lab Manual

**TD Snyder**



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## **Table of Contents Polytechnic Electronics Lab Manual**

1. Understanding the eBook Polytechnic Electronics Lab Manual
  - The Rise of Digital Reading Polytechnic Electronics Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Polytechnic Electronics 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 Polytechnic Electronics Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Polytechnic Electronics Lab Manual
  - Personalized Recommendations
  - Polytechnic Electronics Lab Manual User Reviews and Ratings
  - Polytechnic Electronics Lab Manual and Bestseller Lists
5. Accessing Polytechnic Electronics Lab Manual Free and Paid eBooks
  - Polytechnic Electronics Lab Manual Public Domain eBooks
  - Polytechnic Electronics Lab Manual eBook Subscription Services
  - Polytechnic Electronics Lab Manual Budget-Friendly Options

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