

#### 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



10	ES	Chartgout
0	O.	0
0	1	0
1.	0	0
1	1	1

1-input NOT gate

2-input OR gate



A.	13	Output
O	0	0
0	1	1
1.	O	1
1.	1.	1

2-input NAND gate

# **Polytechnic Electronics Lab Manual**

**Jaspreet Singh** 

**Polytechnic Electronics Lab Manual:** 

### Polytechnic Electronics Lab Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Polytechnic Electronics Lab Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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