

**PLTW Digital Electronics - Final Review Set 1, PLTW Digital Electronics - Final Review Set 2, PLTW Digital Electronics - Final Review Set 3, Digital Electronics - PLTW Review Test**

If an integrated circuit has been damaged and you smell smoke, you should \_\_\_\_\_.

Turn the power off for a few minutes before pulling out the damaged integrated circuit. In scientific notation, which prefixes are used for values smaller than a whole value?

Micro, nano, milli

What is the value of the resistor with colors blue, grey, red, gold?

6.8 K  $\Omega$   $\pm 5\%$

What are the color bands for a 390  $\Omega$  ( $\pm 10\%$ ) resistor?

ORANGE-WHITE-BROWN-SILVER

In a parallel circuit, you measure 1.5 mAmps flowing through a 600  $\Omega$  resistor.

What is the voltage drop across the resistor? Use Ohms law.

900 m Volts

What is the decimal equivalent to the binary number 0101102?

22 power of 10

In the eight-bit binary number shown below, which bit is the Least Significant Bit (LSB)?

b7b6 b5 b4 b3 b2 b1 b0

1 0 1 1 0 1 0 1

B 0 (zero)

Which of the following is a rule of Boolean algebra?

1. AA + 0 = A

2. AB + 1 = 1

3. A + A = A

4. AC + A = 1

A + A = A

What is the binary equivalent to the decimal number 1310?

1101

What is the decimal equivalent to the binary number 0101102?

22 base 10

What is the binary equivalent to the hexadecimal number CH

11002

Which of the following equations is the un-simplified Sum-Of-Products equation for the truth table shown below with F as the Output?

X	Y	Z	F
0	0	0	0
0	0	1	1

# 2015 Digital Electronics Pltw Study Guide

**Patrick Vollmar**

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Bechtel,William Kleitz,1990-01-01 **Introduction to Digital Electronics** ,1985 **Digital Electronics** Siew Leong

Chan,1996 Prepared for unit SEE302 Digital electronics offered by the Faculty of Science and Technology s School of Engineering and Technology in Deakin University s Open Campus Program **Digital Electronics** Siew Leong Chan,1999 Prepared for unit SEE202 Digital electronics offered by the Faculty of Science and Technology s School of Engineering and Technology in Deakin University s Open Campus Program **Digital Electronics** Harry Kybett, Vaughn D.

Martin,1984-05-07 A perfect guide for the electronic or computer hobbyist looking to gain hands on experience through home experiments or the electronics student who needs to learn the fundamentals on his or her own time Written in a learning by doing format this Self Teaching Guide assumes no previous experience with circuits or digital electronics Experiments give practice using integrated circuits advanced logic and arithmetic circuits operational amplifiers binary codes transistor logic and AND and NAND gates **Digital Electronics Questions and Answers PDF** Arshad Iqbal, The

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WHAT THIS BOOK IS FOR Students have generally found electronics a difficult subject to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electronics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of electronics terms also contribute to the difficulties of mastering the subject In a study of electronics REA found the following basic reasons underlying the inherent difficulties of electronics No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle's use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve problems

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