

Question # 1 of 10 (Start time: 05:26:21 PM, 12 September 2022)

Total Marks: 1

TTL 74LS85 is a _____

Select the correct option

 Reload Math Equations

- 4-bit magnitude comparator
- 8-bit magnitude comparator
- 1-bit digital comparator
- 8-bit word comparator

Click to Save Answer & Move to Next Question


Explanation: TTL 74LS85 is a **4-bit magnitude comparator**.

Question # 2 of 10 (Start time: 05:27:02 PM, 12 September 2022)

Total Marks: 1

How many flop flops are required to create a counter circuit which can count from 0 to 7?

Select the correct option

 Reload Math Equations

- 4
- 3
- 2
- 1

 Click to Save Answer & Move to Next Question



How many flip flops are required to make a counter?

Hence, it required **5 flip flops**. Mod-32 means divide by 32 counter. $2^n=32$.

<https://www.indiabix.com> › counters › discussion-2213

About 54,000,000 results (0.68 seconds)


To convert BCD to Excess-3 we have to **add 3(i.e.,0011) to each digit of the BCD number**. To convert Excess-3 to BCD we have to subtract 3(i.e.,0011) to each digit of the Excess-3 number.

<http://testbook.com> Binary Codes

Question # 3 of 10 (Start time: 05:28:23 PM, 12 September 2022)

Total Marks:

Which of the following is the modified code of Excess-3 code?

 Reload Math Equations

Select the correct option

- ASCII
- Gray Code
- BCD
- EBDIC

Click to Save Answer & Move to Next Question

 ScreenRec

Question # 4 of 10 (Start time: 05:29:20 PM, 12 September 2022)

Total Marks: 1

Reflected Binary Code is also known as _____ code.

Select the correct option

 Reload Math Equations

- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | Gray Code |
| <input type="radio"/> | BCD |
| <input type="radio"/> | ASCII |
| <input type="radio"/> | Excess-3 |

Click to Save Answer & Move to Next Question

About 113,000,000 results (0.89 seconds)

The reflected binary code (RBC), also known as reflected binary (RB) or **Gray code** after Frank Gray, is an ordering of the binary numeral system such that two successive values differ in only one bit (binary digit).

Question # 5 of 10 (Start time: 05:30:03 PM, 12 September 2022)

Total Marks: 1

A circuit that compares two numbers and determines their magnitude is called _____

Select the correct option

 Reload Math Equations

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | Inverter |
| <input type="radio"/> | Height comparator |
| <input type="radio"/> | Size comparator |
| <input checked="" type="radio"/> | Magnitude comparator |

Click to Save Answer & Move to Next Question

A circuit that compares two numbers and determine their magnitude is called **magnitude comparator**.

Question # 6 of 10 (Start time: 05:30:36 PM, 12 September 2022)

Total Marks: 1

An identify comparator is defined as a digital comparator which has _____

Select the correct option

 Reload Math Equations

- | | |
|----------------------------------|--------------------------|
| <input type="radio"/> | Two output terminals |
| <input type="radio"/> | Three output terminals |
| <input checked="" type="radio"/> | Only one output terminal |
| <input type="radio"/> | No output terminals |

Click to Save Answer & Move to Next Question


Explanation: An Identity Comparator is a digital comparator that has **only one output terminal** for when $A = B$ either "HIGH" $A = B = 1$ or "LOW" $A = B = 0$.

Question # 7 of 10 (Start time: 05:31:24 PM, 12 September 2022)

Total Marks:

In a comparator, if we get input as $A > B$ then the output will be _____

Select the correct option

 Reload Math Equations

- 0
- A
- 1
- B

Click to Save Answer & Move to Next Question

About 13,400 results (0.36 seconds)

Explanation: A comparator is a combinational circuit that takes two numbers as input in binary form and results whether one input is greater, lesser or equal to the other input. If $A > B$, it means that it satisfies one of the condition among three. Hence the output will be **1**.

Question # 8 of 10 (Start time: 05:32:07 PM, 12 September 2022)

Total Marks: 1

Convert the Gray code 1011 to binary.

Select the correct option

 Reload Math Equations

- | | |
|----------------------------------|------|
| <input type="radio"/> | 1010 |
| <input checked="" type="radio"/> | 1101 |
| <input type="radio"/> | 0111 |
| <input type="radio"/> | 1011 |

Click to Save Answer & Move to Next Question

Decimal Number

Gray Code

Binary Code

11

1110

1011

12

1010

1100

13

1011

1101

14

1001

1110

Which one is a basic comparator?

Select the correct option

 Reload Math Equations

OR

NAND

AND

XOR

Click to Save Answer & Move to Next Question



Question # 10 of 10 (Start time: 05:34:38 PM, 12 September 2022)

Total Marks: 1

A counter circuit is usually constructed of _____

Select the correct option

 Reload Math Equations

- A number of NOR gates connected in cascade form
- A number of flip-flops connected in cascade
- A number of latches connected in cascade form
- A number of NAND gates connected in cascade form

Click to Save Answer & Move to Next Question

flip-flops

A counter circuit is usually constructed of **several flip-flops** **connected in a cascade**. Counters are a very widely used component in digital circuits, and are manufactured as separate integrated circuits and also incorporated as parts of larger integrated circuits.