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MCQ 1:

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

Options:

- A) No output terminals
- B) Only one output terminal
- C) Three output terminals
- D) Two output terminals

Correct Option: D) Two output terminals

MCQ 2:

Question: Which of the following expressions represents S output in a full adder?

Options:

- A) $S = A \oplus B \oplus C_{in}$
- B) $S = A \oplus B$
- C) $S = A + B + C_{in}$
- D) $S = A + B$

Correct Option: A) $S = A \oplus B \oplus C_{in}$

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MCQ 3:

Question: TTL 74LS85 is a _____

Options:

- A) 1-bit digital comparator
- B) 8-bit word comparator
- C) 8-bit magnitude comparator
- D) 4-bit magnitude comparator

Correct Option: D) 4-bit magnitude comparator

MCQ 4:

Question: A counter circuit is usually constructed of _____

Options:

- A) A number of flip-flops connected in cascade
- B) A number of NOR gates connected in cascade form
- C) A number of NAND gates connected in cascade form
- D) A number of latches connected in cascade form

Correct Option: A) A number of flip-flops connected in cascade

MCQ 5:

Question: Following diagram is of _____

Options:

- A) ASCII
- B) BCD

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C) Excess-3

D) Gray

Correct Option: C) Excess-3

MCQ 6:

Question: Comparators are used in _____

Options:

A) CPU

B) Memory

C) Motherboard

D) Hard Drive

Correct Option: A) CPU

MCQ 7:

Question: To create a Johnson Counter by using D-flip flops, how flip flops should be connected together?

Options:

A) Q output of previous flip flop should be connected to clock input of second flip flop

B) Q' output of previous flip flop should be connected to clock input of second flip flop

C) Q' output of previous flip flop should be connected to D input of second flip flop

D) Q output of previous flip flop should be connected to D input of second flip flop

Correct Option: C) Q' output of previous flip flop should be connected to D input of second flip flop

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MCQ 8:

Question: Three decade counter would have _____

Options:

A) 5 BCD counters

B) 2 BCD counters

C) 3 BCD counters

D) 4 BCD counters

Correct Option: C) 3 BCD counters

MCQ 9:

Question: Reflected Binary Code is also known as _____ code.

Options:

A) Excess-3

B) BCD

C) Gray Code

D) ASCII

Correct Option: C) Gray Code

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