

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available

1. Addition of two BCD digits requires two ____ Parallel Adder Circuits.

- a) 2-bit
- b) 8-bit
- c) 16-bit
- d) 4-bit

Answer: d) 4-bit

2. In CMOS 5 Volt series, the input voltage of Logic high signal (V_{IH}) with a range from ____ to ____ volts.

- a) 4.5, 5
- b) 0, 3.5
- c) 3.5, 5
- d) 0, 5

Answer: c) 3.5, 5

3. Subtractors also have an output to check if 1 has been ____.

- a) Complemented
- b) Primed
- c) Shifted
- d) Borrowed

Answer: d) Borrowed

4. The output of an AND gate is one when ____.

- a) All of the inputs are one
- b) Any of the input is one

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available

c) All the inputs are zero

d) Any of the input is zero

Answer: a) All of the inputs are one

5. A 3-variable Karnaugh map has _____ cells.

a) Three

b) Sixteen

c) Four

d) Eight

Answer: d) Eight

6. _____ single digit BCD Adders can be cascaded together to form a 2-digit BCD Adder.

a) 1

b) 2

c) 3

d) 4

Answer: b) 2

7. $A.(B + C) = A.B + A.C$ is the expression of _____.

a) Demorgan's Law

b) Commutative Law

c) Distributive Law

d) Associative Law

Answer: c) Distributive Law

8. Which one is true?

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available

Power consumption of CMOS is higher than TTL.

Power consumption of TTL is higher than CMOS.

Power consumption of both CMOS and TTL depends on the number of gates in the circuit.

Both TTL and CMOS have the same power consumption.

(Choose the correct option.)

Answer: b) Power consumption of TTL is higher than CMOS.

9. The digital circuits operate with which combination of values given below?

-5 volts, 0 volts

-5 volts, +5 volts

+5 volts, 0 volts

0 volts, 0 volts

(Choose the correct option.)

Answer: c) +5 volts, 0 volts

10. The series of TTL chips are characterized by their _____.

a) Switching Speed Only

b) Power Dissipation Only

c) Both

d) None of the above

Answer: a) Switching Speed Only

File by MAM MEHWISH 03184148783

Paid LMS HAndling Available