

22320 Digital Techniques Mcq Test Papers

De Morgan's 2nd Theorem states that Complement of sum is equal to product of their individual complements

- (a) True
- (b) False **Answer**

Reason: De Morgan's 2nd Theorem states that Complement of product is equal to sum of their individual complement

In a ring counter if the output of any stage is 1, then its remainder is 1?

- (a) True
- (b) False **Answer**

Reason: In ring counter if the output of any stage is 1, then its reminder is 0

The Ring counters transfers the same output throughout the circuit

- (a) True **Answer**
- (b) False

Memory required electrical power to keep information stored is called non-volatile memory

- (a) True
- (b) False

Reason: Memory that will keep storing its information without the need of electrical power is called nonvolatile memory.

ROMs, EPROM, magnetic memories are examples of Volatile memory?

- (a) True
- (b) False **Answer**

Reason: All RAMs are Volatile memory

Volatile memory is used for temporary storage?

- (a) True **Answer**
- (b) False

The JK flip flop is basically a gated SR flip-flop with the addition of a clock input circuitry that prevents the illegal or invalid output condition that can occur when both inputs S and R are equal to logic level "1"

- (a) True **Answer**
- (b) False

EPROM stands for Electrically Erasable Programmable Read-Only Memory.

- (a) True
- (b) False **Answer**

Reason: EPROM stands for Erasable Programmable ReadOnly Memory

EPROM is a modern version of PROM.

- (a) True **Answer**
- (b) False

Fan-in is a term that defines the maximum number of digital inputs that a single logic gate can accept.

- (a) True **Answer**
- (b) False

Fan-out is a term that defines the maximum number of digital inputs that the output of a single logic gate can feed.

- (a) True **Answer**
- (b) False

In synchronous counter Decoding errors are present?

- (a) True
- (b) False **Answer**

Reason: In synchronous counter Decoding errors are not present

Linearity is defined as the relation between the digital input and analog output should be linear?

- (a) True **Answer**
- (b) False

An encoder is a device or circuit that converts information from one format or code to another, for the purpose of standardization, speed or compression?

- (a) True **Answer**
- (b) False

Power Dissipation is the amount of power dissipated in an IC

- (a) True **Answer**
- (b) False

Basic gates of ECL

- (a) OR/NOR **Answer**
- (b) NOT
- (c) Ex-OR
- (d) NAND

Propagation delay of TTL

- (a) 2
- (b) 4
- (c) 8
- (d) 10 **Answer**

Fan out of TTL

- (a) 5
- (b) 10 **Answer**
- (c) 15
- (d) 20

Power Dissipation of TTL

- (a) 5 mW
- (b) 10mW **Answer**
- (c) 15mW
- (d) 20mW

Power Dissipation of CMOS

- (a) 0.75 mW
- (b) 0.95mW
- (c) 1.01mW **Answer**
- (d) 1.25mW

Noise Immunity of CMOS

- (a) 5V **Answer**
- (b) 10V
- (c) 15V
- (d) 20V

Noise Immunity of ECL

- (a) 0.25V **Answer**
- (b) 0.50V
- (c) 0.75V
- (d) 1V

State the necessity of multiplexer

- (a) For simplifying logic design
- (b) It reduces the number of wires required to pass data from source to destination.
- (c) For minimizing the hardware circuit
- (d) Reduces the cost as sending many signals separately is expensive and requires more wires to send.
- (e) All of the above **Answer**

How many flip flops are required for a Mod-6 counter?

- (a) 2
- (b) 3 **Answer**
- (c) 4
- (d) 5

_____ is used to erase the content of EPROM?

- (a) electrical signal.
- (b) Magnetic signal
- (c) Ultraviolet Light
- (d) Both (b) & (c) **Answer**

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