

Which of the following semiconductor memory utilizes both p-n and N-p channel devices on the same substrata?

- (A) CMOS
- (B) Static MOS
- (C) Dynamic MOS
- (D) Bipolar

Ans: A

CMOS

Digital systems are the systems which

- (A) Manipulate Information
- (B) Use analog signals
- (C) Handle information in digital form internally
- (D) Deal with digital information in the external world

Ans: C

Handle information in digital form internally

The maximum frequency at which digital data can be applied to gate is

- (A) Charging time
- (B) Binary level transaction period
- (C) Propagation speed
- (D) Operating speed

Ans: D

Operating speed

Generally, speed of operation of a logic gate is quoted in

- (A) Micro seconds
- (B) Nano seconds
- (C) Milli seconds
- (D) Seconds

Ans: B

Nano seconds

A Special type of computer memory chip offering high storage density with low power consumption is

(A) ROM

(B) Charge coupled Device (CCD)

(C) RAM

(D) SAM

Ans: B

Charge coupled Device (CCD)

Which of the followings semiconductor memories is considered fast?

(A) CMOS

(B) Dynamic MOS

(C) Static MOS

(D) ECL

Ans: D

ECL

Which logic gate has low power consumption?

(A) RTL

(B) DTL

(C) TTL

(D) CMOS

Ans: D

CMOS

SMD on a data sheet for an IC means

(A) Surface mount device

(B) Synchronous mode device

(C) Serial mode data

(D) Single memory device

Ans: A

Surface mount device

Which logic family is the fastest?

(A) DTL

(B) CMOS

(C) TTL

(D) ECL

Ans: D

ECL

The switching speed of ECL is very high because

(A) Its transistors remain unsaturated

(B) It uses high speed transistors

(C) It uses negative logic

(D) It uses positive logic

Ans: A

Its transistors remain unsaturated

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