

Digital Electronics Quiz [Questions and Answers Pdf](#)

Question: 1

A working diode must have

- (A) Low resistance when forward or reverse biased
- (B) High resistance when forward biased, while low resistance when reverse bias
- (C) Low resistance when forward biased, while high resistance when reverse bias
- (D) High resistance when forward or reverse biased

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Ans: C

Low resistance when forward biased, while high resistance when reverse bias

Question: 2

A Semiconductor has a

- (A) Constant Temperature coefficient of resistance
- (B) Positive Temperature coefficient of resistance
- (C) Negative Temperature coefficient of resistance
- (D) None of the above

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Ans: C

Negative Temperature coefficient of resistance

Question: 3

Which of the following parameters is used for distinguishing between a small signal and a large signal amplifier?

(A) Input/Output impedances

(B) Voltage gain

(C) Frequency response

(D) Harmonic distortion

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Ans: A

Input/Output impedances

Question: 4

Negative feedback enhances all performance parameters of an amplifier except its

(A) Noise figure

(B) Input impedance

(C) Gain

(D) 3 dB noise

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Ans: C

Gain

Question: 5

FET is advantageous in comparison with BJT because of

(A) High noise immunity

- (B) Its current controlled behaviour
- (C) High gain bandwidth product
- (D) High input impedance

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Ans: D

High input impedance

Question: 6

In a JFET, at pinch-off voltage applied on the gate

- (A) The drain current becomes almost zero
- (B) The drain current is almost at saturation value
- (C) The drain to source voltage is close to zero volts
- (D) The drain current begins to decrease

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Ans: B

The drain current is almost at saturation value

Question: 7

The main characteristics of a Darlington amplifier are

- (A) Low input impedance, low output impedance and high current gain
- (B) High input impedance, high output impedance and high current gain
- (C) Low input impedance, low output impedance and low current gain
- (D) High input impedance, low output impedance and high current gain

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Ans: D

High input impedance, low output impedance and high current gain

Question: 8

Most of linear ICs are based on the two transistor differential amplifier because of its

- (A) Input voltage dependent linear transfer characteristic
- (B) High input resistance
- (C) High voltage gain
- (D) High CMMR

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Ans: D

High CMMR

Question: 9

Silicon and Germanium are _____ electrons.

- (A) Tetravalent
- (B) Hexavalent
- (C) Pentavalent
- (D) Trivalent

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Ans: A

Tetravalent

Question: 10

A self bias circuit stabilizes the _____ circuit against variations in temperature and process parameters.

(A) Base emitter voltage

(B) Base current

(C) Current gain

(D) Collector current

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Ans: D

Collector current

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