

GITIANKOLA

ITI Quiz - 14-May-2026 12:10 PM

Q. ID: ITISKILL8823TF | May 2026

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Attempt No.	#1	Completion Time	08:25 PM
Rank	#7	Total Questions	25

16 SCORE

25 MAX MARKS

16 CORRECT

9 INCORRECT

Answer Review

Q1 **CORRECT** Which coding system for transistor type numbering system is followed by American standard?

A. JIS standard

B. Home codes

C. JEDEC standard ☒

D. PRO-ELECTRON standard

Q2 **INCORRECT** What is the current gain of common collector amplifier?

A. Low

B. High

C. Medium ☐

D. Very high ☒

Q3 **CORRECT** What is the current gain of a common ? base amplifier?

A. Unity

B. Infinity

C. Greater than 1

D. Less than 1 ☒

Q4 **INCORRECT** What is the meaning of first letter indicated in the transistor code number BC 107?

A. Germanium material used

B. Silicon material used ☒

C. Antimony material used

D. Indium material used ☐

Q5 **CORRECT** What is the formula used to calculate the current gain (alpha) of common base amplifier?

A. I_C / I_E ☒

B. I_E / I_C

C. I_B / I_E

D. I_E / I_C

Q6 **INCORRECT** What is the name of multi-stage amplifiers?

A. Cascoded amplifier

B. Cascaded amplifier ☒

C. Complementary symmetry amplifier

D. Darlington pair amplifier ☐

Q7 **CORRECT** What is the maximum emitter to base voltage V_{EB} (max) for the transistor BC 147?

A. 4V

B. 5V

C. 6V ☒

D. 8V

Q8 **CORRECT** How the negative feedback is called?

A. Regenerative feedback

B. Degenerative feedback ☒

C. Current controlled feedback

D. Voltage controlled feedback

Q9 **INCORRECT** How the maximum permissible voltage that can be applied across the collector ? Emitter junction of a transistor is indicated?

A. V_{CE} (max) in volts ☒

B. V_{BE} (max) in volts

C. V_{CB} (max) in volts ☐

D. V_{CC} in volts

Q10 **CORRECT** Which configuration of transistor amplifier is most commonly used in electronic circuits?

A. Common base configuration

B. Common emitter configuration ☒

C. Common collector configuration

D. Common drain amplifier configuration

Q11 **CORRECT** Why transistors made of silicon is preferred over the germanium semiconductor material?

- A. Complex design
- B. Higher thermal stability ☒
- C. Requires complicated bias arrangement
- D. Silicon transistor needs low cut-in-voltage

Q12 **INCORRECT** Why NPN type of transistors are preferred over the PNP type transistors?

- A. NPN has lower switching speed ☐
- B. NPN has good bias stability
- C. NPN has higher switching speed ☒
- D. Low operating voltage

Q13 **CORRECT** Which type of transistors are required to amplify signals from the microphone /transducer?

- A. Low power transistors ☒
- B. Medium power transistors
- C. High power transistors
- D. Epitaxial versa watt transistors

Q14 **CORRECT** What are the basic components required for a clipping circuit?

- A. Diode and resistor ☒
- B. Transistor and diode
- C. Diode and capacitor
- D. Capacitor and resistor

Q15 **CORRECT** Which circuit is used to clip portion of both positive and negative half cycle of input signal voltage?

A. Combination clipper circuit ☒

B. Biased negative clipper circuit

C. Biased positive clipper circuit

D. Unbiased clipper circuit

Q16 **INCORRECT** Which application the clamper circuit is used in electronics?

A. Radars

B. Radio receivers ☐

C. Storage counters

D. Power supplies ☒

Q17 **CORRECT** What is the use of clamper in electronic circuits?

A. For slicing both peaks

B. For positive peak clipping

C. For negative peak clipping

D. For DC component restoration ☒

Q18 **CORRECT** What is the name of the circuit that shifts the original signal in a vertical downward direction?

A. Peak clipper circuit

B. Negative clamping circuit ☒

C. Positive clamping circuit

D. Combination clipper circuit

Q19 **CORRECT** Which type of clipper is that a small portion of the negative half cycle of signal is removed?

A. Biased positive clipper

B. Biased negative clipper ☒

C. Combination clipper

D. Positive clamper

Q20 **CORRECT** What is the name of the circuit that shifts the waveform upward or downward without disturbing its shape?

A. Clipper circuit

B. Clamper circuit ☒

C. Biased clipper circuit

D. Combination clipper circuit

Q21 **INCORRECT** What is the function of clipper circuit?

A. Regulation

B. Rectification

C. Amplification ☐

D. Wave shaping ☒

Q22 **CORRECT** What is the name of the circuit that shifts the original signal in a vertical upward direction?

A. Peak clipper circuit

B. Negative clamping circuit

C. Positive clamping circuit ☒

D. Combination clipper circuit

Q23 **CORRECT** What should be the time constant $t = RC$ for a good clamper circuit with reference to time period of the input signal?

- A. Half the time period of signal
- B. Double the time of signal frequency
- C. Five times the time period of signal
- D. RC values should be at least ten times ☐

Q24 **INCORRECT** When does the biased negative clipper removes the portion of input signal?

- A. During the positive half cycle of input
- B. Signal voltage is lesser than bias battery voltage
- C. Signal voltage equals the bias battery voltage ☐
- D. Signal voltage becomes greater than bias battery voltage ☐

Q25 **INCORRECT** When does the biased positive clipper removes the portion of input signal?

- A. During the negative half cycle of input
- B. Signal voltage is lesser than bias battery
- C. Signal voltage equals the bias battery voltage ☐
- D. Signal voltage becomes greater than bias battery voltage ☐