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

Q. ID: ITISKILL8823TF

May 2026 **GITIANKOLA** Question Paper

Duration: 30 Mins **Total Marks: 25** **ID: ITISKILL8823TF**

Student Name: _____ Roll No: _____

1. How the negative feedback is called?

A) Current controlled feedback
B) Degenerative feedback
C) Regenerative feedback
D) Voltage controlled feedback

2. What is the name of the circuit that shifts the original signal in a vertical downward direction?

A) Positive clamping circuit
B) Negative clamping circuit
C) Peak clipper circuit
D) Combination clipper circuit

3. What is the name of the circuit that shifts the original signal in a vertical upward direction?

A) Peak clipper circuit
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4. What is the use of clamper in electronic circuits?

A) For slicing both peaks
B) For DC component restoration
C) For positive peak clipping
D) For negative peak clipping

5. Which type of transistors are required to amplify signals from the microphone /transducer?

A) Medium power transistors
B) Low power transistors
C) Epitaxial versa watt transistors
D) High power transistors

6. What is the name of the circuit that shifts the waveform upward or downward without disturbing its shape?

A) Combination clipper circuit
B) Biased clipper circuit
C) Clamper circuit
D) Clipper circuit

7. Which configuration of transistor amplifier is most commonly used in electronic circuits?

A) Common drain amplifier configuration
B) Common base configuration
C) Common emitter configuration
D) Common collector configuration

8. Which coding system for transistor type numbering system is followed by American standard?

A) PRO-ELECTRON standard
B) JIS standard
C) Home codes
D) JEDEC standard

9. What is the name of multi-stage amplifiers?

A) Complementry symmetry amplifier
B) Cascaded amplifier
C) Darlington pair amplifier
D) Cascoded amplifier

10. What should be the time constant t = RC for a good clamper circuit with reference to time period of the input signal?

A) RC valves should be at least ten times
B) Five times the time period of signal
C) Double the time of signal frequency
D) Half the time period of signal

11. What in the current gain of a common ? base amplifier?

A) Infinity
B) Less than 1
C) Greater than 1
D) Unity

12. What are the basic components required for a clipping circuit?

A) Diode and capacitor
B) Capacitor and resistor
C) Diode and resistor
D) Transistor and diode

13. When does the biased negative clipper removes the portion of input signal?

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

14. How the maximum permissible voltage that can be applied across the collector ? Emitter junction of a transistor is indicated?

A) VCC in volts
B) VCB (max) in volts
C) VCE (max) in volts
D) VBE (max) in volts

15. What is the meaning of first letter indicated in the

transistor code number BC 107?

A) Germanium material used
B) Antimony material used
C) Silicon material used
D) Indium material used

16. Which type of clipper is that a small portion of the negative half cycle of signal is removed?

A) Biased negative clipper
B) Positive clamper
C) Biased positive clipper
D) Combination clipper

17. Why NPN type of transistors are preferred over the PNP type transistors?

A) NPN has higher switching speed
B) NPN has lower switching speed
C) NPN has good bias stability
D) Low operating voltage

18. Which application the clamper circuit is used in electronics?

A) Radio receivers
B) Radars
C) Power supplies
D) Storage counters

19. Why transistors made of silicon is preferred over the germanium semiconductor material?

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

20. What is the function of clipper circuit?

A) Amplification
B) Wave shaping
C) Regulation
D) Rectification

21. Which circuit is used to clip portion of both positive and negative half cycle of input signal voltage?

A) Unbiased clipper circuit
B) Combination clipper circuit
C) Biased positive clipper circuit
D) Biased negative clipper circuit

22. What is the current gain of common collector amplifier?

A) Low
B) Very high
C) High
D) Medium

23. What is the maximum emitter to base voltage VEB (max) for the transistor BC 147?

A) 5V
B) 4V
C) 6V
D) 8V

24. What is the formula used to calculate the current gain (alpha) of common base amplifier?

A) IE/ IC
B) IE/ IC
C) IC/ IE
D) IB/ IE

25. 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 becomes greater than bias battery voltage
D) Signal voltage equals the bias battery voltage