

Monthly Test of February-2026

Q. ID: ITISKILL6937ZA

February 2026

GOVT ITI TAGADURU

Answer Key

Duration: 30 Mins

Total Marks: 20

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1. How does the values of bias resistors selected for collector current in class -B amplifiers?

- A) Quiescent current at mid point
B) Quiescent current over the cut-off value
C) Q point set slightly below cut-off
D) Quiescent current beyond the cut-off point

Answer: B) Quiescent current over the cut-off value

2. What is the input impedance of darlington pair transistors?

- A) Very high input impedance
B) Uniter
C) Medium input impedance
D) Very low input impedance

Answer: A) Very high input impedance

3. What is the efficiency transformer coupled class A amplifier?

- A) Unity
B) More than 60%
C) About 50%
D) Less than 20%

Answer: C) About 50%

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

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

Answer: C) VCE (max) in volts

5. How can you confirm a transistor as defective?

- A) By ohm meter testing
B) By physical testing
C) By circuit testing
D) By voltage measurements

Answer: A) By ohm meter testing

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

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

Answer: A) Cascaded amplifier

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

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

Answer: D) Higher thermal stability

8. Which type of amplifier is used to operate the loud speaker?

- A) Voltage Amplifier
B) IF Amplifier
C) Power Amplifier
D) RF Amplifier

Answer: C) Power Amplifier

9. What type of packaging is generally used to transistors utilized for low power amplification?

- A) Ceramic packaging
B) Metal packaging
C) Plastic packaging
D) Plastic packaging with metal heatsinks

Answer: C) Plastic packaging

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

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

Answer: D) Very high

11. What is the advantage of using bias in transistor circuits?

- A) Never reach saturation
B) Provides positive feed back
C) Gives maximum distortion
D) Easily sets saturated

Answer: A) Never reach saturation

12. What is the purpose of using positive feed back in amplifiers?

- A) To produce demodulation
B) To produce multiplexion
C) To produce oscillation
D) To produce modulation

Answer: C) To produce oscillation

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

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

Answer: C) Common emitter configuration

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

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

Answer: A) IC/ IE

15. Which coding system for transistor type numbering

system is followed by American standard?

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

Answer: B) JEDEC standard

16. What is the overall base emitter voltage required to turn the darlington pair?

- A) 0.2 V
- B) 0.7 V
- C) 1.4 V
- D) 0.3 V

Answer: C) 1.4 V

17. How the negative feedback is called?

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

Answer: B) Degenerative feedback

18. Why the complementary - symmetry amplifier is

preferred over the other types of amplifier configurations?

- A) To eliminate the transformer
- B) To get more voltage gain
- C) To minimize the gain
- D) To get less distortion

Answer: A) To eliminate the transformer

19. Where does the depletion region exists in a bipolar transistor?

- A) Between collector - base electrodes
- B) Between E-B and B-C electrodes
- C) Between emitter - base electrodes
- D) Between collector and emitter electrodes

Answer: B) Between E-B and B-C electrodes

20. Which type of packaging is used to transistors utilized for medium power amplification?

- A) Plastic packaging
- B) Ceramic packaging
- C) Metal packaging
- D) Plastic packaging with metal heatsinks

Answer: D) Plastic packaging with metal heatsinks
