

# ITI Quiz - 26-May-2026

## 06:38 AM

Q. ID: ITISKILL6466DV

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Answer Key

Duration: 60 Mins

Total Marks: 61

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

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

**Answer: C) Very high**

2. What is the meaning of maximum safe reverse voltage across a diode?

- A) Reverse break down voltage
- B) Knee voltage
- C) PIV voltage
- D) Break down voltage

**Answer: C) PIV voltage**

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

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

**Answer: D) Common emitter configuration**

4. How much time is required to make a quality soldered joint using soldering iron?

- A) 15 - 20 seconds
- B) 3 - 7 seconds
- C) 7 - 10 seconds
- D) 10 - 15 seconds

**Answer: B) 3 - 7 seconds**

5. Which three terminal voltage regulator IC has adjustable output?

- A) LM 105
- B) LM 100
- C) LM 317
- D) LM 305

**Answer: C) LM 317**

6. Which ratio of tin-lead combination is used for electronic component soldering work?

- A) 60:40:00
- B) 63:37:00
- C) 40:60
- D) 20:40

**Answer: A) 60:40:00**

7. How many types of soldering is used for joining metal surfaces?

- A) Three
- B) Four
- C) Two
- D) Five

**Answer: C) Two**

8. Which step is important for soldering a joint?

- A) Pasting the joint
- B) Heating the joint
- C) Cleaning the joint
- D) Cooling the joint

**Answer: B) Heating the joint**

9. Which is the 3 terminal, negative voltage regulator IC?

- A) IC 7905
- B) LM 340
- C) LM 320
- D) IC 7812

**Answer: A) IC 7905**

10. Which soldering instrument has hot air blowing facility?

- A) Soldering station
- B) Soldering iron
- C) Wave soldering machine
- D) Temperature controlled soldering iron

**Answer: A) Soldering station**

11. Which impurity is added to pure semiconductor to form N-type material?

- A) Arsenic
- B) Gallium
- C) Boron
- D) Indium

**Answer: A) Arsenic**

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

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

**Answer: C) Cascaded amplifier**

13. Which circuit is determined by the frequency of LC tank circuit?

- A) Amplifier
- B) Multiplexed
- C) Demodulator
- D) Oscillator

**Answer: D) Oscillator**

14. Which type of soldering is used for electronic circuit?

- A) Brazing
- B) Hard soldering
- C) Soft soldering
- D) Hot soldering

**Answer: C) Soft soldering**

15. What is the effect of over heating on soldering a joint?

- A) Dull grainy surface
- B) Flux trapped against lead
- C) Cold joint
- D) Poor wetting

**Answer: A) Dull grainy surface**

16. Which IC package consist of 100 to 1000 transistors?

- A) Medium scale integration (MSI)    B) Small scale integration (SSI)  
C) Large scale integration (LSI)    D) Very large scale integration (VLSI)

**Answer: C) Large scale integration (LSI)**

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

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

**Answer: C) Higher thermal stability**

18. What is the name of defect if the flux is unable to remove the tarnish from the soldered joint?

- A) Cold joint    B) Poor wetting  
C) Pits and voids    D) Dull gravity surface

**Answer: A) Cold joint**

19. What is the range of temperature used in soldering station?

- A) 600 Degree Centigrade to 800 Degree Centigrade    B) 800 Degree Centigrade to 1000 Degree Centigrade  
C) 450 Degree Centigrade to 600 Degree Centigrade    D) 150 Degree Centigrade to 450 Degree Centigrade

**Answer: D) 150 Degree Centigrade to 450 Degree Centigrade**

20. When does the zener diode begins to conduct in the reverse biased condition?

- A) Voltage across zener reached 0.3V    B) When bias voltage reached 0.7V  
C) Voltage across it reached the zener voltage    D) After the barrier voltage cancelled

**Answer: C) Voltage across it reached the zener voltage**

21. Which parameter is maintained constant in zener diode?

- A) Current    B) Resistance  
C) Power    D) Voltage

**Answer: D) Voltage**

22. Which is the transistor used to operate the Colpitts oscillator?

- A) BC 148B    B) AC 127  
C) BF 194B    D) AC 188

**Answer: C) BF 194B**

23. What is the resonant frequency range of a crystal?

- A) Between 0.1 and 1MHZ    B) Between 0.5 and 30 MhZ  
C) Between 0.1 and 10 MHZ    D) Between 0.5 and 25 MHZ

**Answer: B) Between 0.5 and 30 MhZ**

24. How the flux residue is removed after soldering a joint?

- A) Organic flux    B) Water  
C) Petrol    D) Isopropyl alcohol

**Answer: D) Isopropyl alcohol**

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

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

**Answer: B) NPN has higher switching speed**

26. When does the rosin flux melts in a soldering process?

- A) During the solder is melting    B) When the solder is melting  
C) After the solder melts    D) When the solder is heated

**Answer: D) When the solder is heated**

27. What is the process of adding impurities to a pure semiconductor material?

- A) Diffusion    B) Forming  
C) Doping    D) Etching

**Answer: C) Doping**

28. Which impurity is added to form P - type semiconductor material?

- A) Gallium    B) Antimony  
C) Arsenic    D) Phosphorus

**Answer: A) Gallium**

29. Which diode is used in low power communication circuits?

- A) High power diodes    B) Switching diodes  
C) Rectifier diodes    D) Signal diodes

**Answer: D) Signal diodes**

30. Which type of voltage regulator is IC 723?

- A) Multipin variable voltage regulator    B) Three pin positive voltage regulator  
C) Three pin adjustable voltage regulator    D) Three pin negative voltage regulator

**Answer: C) Three pin adjustable voltage regulator**

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

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

**Answer: B) Power Amplifier**

32. Which circuits commonly use parallel-fed Hartley oscillators?

- A) Radio receivers  
C) Stereo amplifiers
- B) Automatic voltage stabilizers  
D) Television receivers

**Answer: A) Radio receivers**

**33.** What is the output frequency of the pulsating DC in a two diode fullwave rectifier?

- A) Same frequency of the A/C input  
C) Half of the input A/C frequency
- B) Double the input A/C frequency  
D) Three times the input A/C frequency

**Answer: B) Double the input A/C frequency**

**34.** How can you confirm a transistor as defective?

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

**Answer: C) By ohm meter testing**

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

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

**Answer: A) Plastic packaging**

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

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

**Answer: A) Power amplifier**

**37.** What is produced by the power supply connected soldering iron?

- A) Heat  
C) Cool air
- B) Fire  
D) Water vapour

**Answer: A) Heat**

**38.** What is the difference of Colpitts oscillator compare to Hartley oscillator?

- A) Uses SCR combination  
C) Uses crystal oscillator
- B) Uses split inductor  
D) Uses split capacitor

**Answer: D) Uses split capacitor**

**39.** What is the full of the abbreviation DPDT used in switches?

- A) Double Pole Direct Throw  
C) Dual Phase Dual Throw
- B) Direct Pole Double Throw  
D) Double Pole Double Throw

**Answer: D) Double Pole Double Throw**

**40.** What is the full form of the abbreviation SPDT used in switches?

- A) Single Pole Double Throw  
C) Shared Pole Double Throw
- B) Single Phase Dual Throw  
D) Single Pole Single Throw

**Answer: A) Single Pole Double Throw**

**41.** How to improve the frequency stability in oscillator circuits?

- A) Using L and C  
C) Improve the property of circuits
- B) By using quartz crystal  
D) Increase the supply voltage

**Answer: B) By using quartz crystal**

**42.** What is the output pulse frequency of the full wave rectifier with input frequency of 50 Hz?

- A) 200 Hz  
C) 60 Hz
- B) 100 Hz  
D) 40 Hz

**Answer: B) 100 Hz**

**43.** What is the disadvantage of the two diode full wave rectifier compared with a bridge rectifier?

- A) DC output level is higher  
C) Each diode carries half the load current
- B) The need of bulky transformer  
D) The ripple frequency is higher

**Answer: B) The need of bulky transformer**

**44.** What is the name of the process of converting AC into DC voltage?

- A) Inverting  
C) Rectifying
- B) Demodulating  
D) Amplifying

**Answer: C) Rectifying**

**45.** Why the solvent Iso Propyl Alcohol (IPA) is used on the solder joint?

- A) To help the corrosive action  
C) Cleaning before soldering the joint
- B) Remove residual flux and prevent corrosion  
D) To break down the acid within the joint

**Answer: B) Remove residual flux and prevent corrosion**

**46.** How many transistors are built inside the Very Large Scale Integration (VLSI) IC package?

- A) 1000 and above  
C) 10 to 100 transistors
- B) 100 to 1000 transistors  
D) 1 to 10 transistors

**Answer: A) 1000 and above**

**47.** What is the effect on the output voltage in a bridge rectifier circuits, with one diode open?

- A) Half of the rated output voltage  
C) Full output rated voltage
- B) Very low voltage  
D) No output DC voltage

**Answer: A) Half of the rated output voltage**

48. How much is the maximum load current of the negative voltage regulator IC 7912?

- A) 1.0 A
- B) 1.5 A
- C) 2.0 A
- D) 0.55 A

**Answer: C) 2.0 A**

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

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

**Answer: B) JEDEC standard**

50. Which parameter of passive component can be calculated using the formula ?

- A) Capacitance
- B) Capacitive reactance
- C) Inductive reactance
- D) Inductance

**Answer: B) Capacitive reactance**

51. What is the name of flux used for soldering electronic components?

- A) Resin
- B) Mild acid
- C) Rosin
- D) Organic acid

**Answer: C) Rosin**

52. Which bonding material is used for soldering a joint?

- A) Grease
- B) Flux
- C) Oil
- D) Acid

**Answer: B) Flux**

53. What is the meaning of first letter indicated in the transistor code number BC 107?

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

**Answer: D) Silicon material used**

54. What is the current gain of a common ? base amplifier?

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

**Answer: D) Less than 1**

55. What is the formula used to calculate the current gain

(alpha) of common base amplifier?

- A)  $I_E / I_C$
- B)  $I_E / I_C$
- C)  $I_B / I_E$
- D)  $I_C / I_E$

**Answer: D)  $I_C / I_E$**

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

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

**Answer: C) Low power transistors**

57. What type of feed back is used by the Wein-bridge oscillator to oscillate the signal?

- A) Positive feedback
- B) Negative feedback
- C) Both positive and negative feedback
- D) No feedback

**Answer: C) Both positive and negative feedback**

58. How the negative feedback is called?

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

**Answer: C) Degenerative feedback**

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

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

**Answer: B) Plastic packaging with metal heatsinks**

60. Which tool works on the principle of air suction?

- A) Soldering iron
- B) Desoldering braid
- C) Soldering wick
- D) Desoldering pump

**Answer: D) Desoldering pump**

61. Which component filter the ripples in the rectifier circuit?

- A) Capacitor
- B) DIAC
- C) TRIAC
- D) Diode

**Answer: A) Capacitor**