

ITI Quiz - 26-May-2026

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Q. ID: ITISKILL6466DV

May 2026

Question Paper

Duration: 60 Mins

Total Marks: 61

ID: ITISKILL6466DV

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

3. 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

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

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

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

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

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

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

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

- A) Complementary symmetry amplifier
- B) Cascaded amplifier
- C) Darlington pair amplifier
- D) Cascode amplifier

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. Which parameter is maintained constant in zener diode?

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

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

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

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

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

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

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

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

21. How the negative feedback is called?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

29. 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

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

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

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

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

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

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

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

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

34. Which step is important for soldering a joint?

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

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

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

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

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

37. Which impurity is added to form P - type semiconductor

material?

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

38. How to improve the frequency stability in oscillator circuits?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

49. 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

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

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

51. 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

52. Which soldering instrument has hot air blowing facility?

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

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

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

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

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

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

- A) Power Amplifier
- C) Voltage Amplifier

- B) RF Amplifier
- D) IF Amplifier

- C) Voltage across it reached the zener voltage

- D) Voltage across zener reached 0.3V

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

- A) Etching
- C) Doping

- B) Diffusion
- D) Forming

57. Which type of voltage regulator is IC 723?

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

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

- A) When bias voltage reached 0.7V

- B) After the barrier voltage cancelled

59. How can you confirm a transistor as defective?

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

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

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

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

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