

ITI Quiz - 26-May-2026 06:38 AM

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| Student Name | Sanju | Access Code | 2551 |
| Attempt No. | #1 | Completion Time | 12:03 PM |
| Rank | #30 | Total Questions | 61 |

16 SCORE

61 MAX MARKS

16 CORRECT

45 INCORRECT

Answer Review

Q1 **INCORRECT** How many transistors are built inside the Very Large Scale Integration (VLSI) IC package?

A. 1000 and above

B. 1 to 10 transistors

C. 10 to 100 transistors

D. 100 to 1000 transistors

Q2 **INCORRECT** Which IC package consist of 100 to 1000 transistors?

A. Large scale integration (LSI)

B. Small scale integration (SSI)

C. Medium scale integration (MSI)

D. Very large scale integration (VLSI)

Q3 **INCORRECT** Which is the 3 terminal, negative voltage regulator IC?

A. LM 320

B. LM 340

C. IC 7905

D. IC 7812

Q4 **CORRECT** Which three terminal voltage regulator IC has adjustable output?

A. LM 100

B. LM 105

C. LM 305

D. LM 317

Q5 **INCORRECT** 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

Q6 **CORRECT** Which type of voltage regulator is IC 723?

A. Multipin variable voltage regulator

B. Three pin positive voltage regulator

C. Three pin negative voltage regulator

D. Three pin adjustable voltage regulator

Q7 **INCORRECT** What is the resonant frequency range of a crystal?

A. Between 0.1 and 1MHz

B. Between 0.1 and 10 MHz

C. Between 0.5 and 25 MHz

D. Between 0.5 and 30 MHz

Q8 **CORRECT** What is the difference of Colpitts oscillator compare to Hartley oscillator?

A. Uses split inductor

B. Uses split capacitor

C. Uses crystal oscillator

D. Uses SCR combination

Q9 **INCORRECT** Which circuit is determined by the frequency of LC tank circuit?

A. Oscillator

B. Amplifier

C. Multiplexed

D. Demodulator

Q10 **CORRECT** Which circuits commonly use parallel-fed Hartley oscillators?

A. Stereo amplifiers

B. Radio receivers

C. Television receivers

D. Automatic voltage stabilizers

Q11 **CORRECT** What type of feed back is used by the Wein-bridge oscillator to oscillate the signal?

A. No feedback

B. Positive feedback

C. Negative feedback

D. Both positive and negative feedback

Q12 **CORRECT** How to improve the frequency stability in oscillator circuits?

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

Q13 **CORRECT** Which is the transistor used to operate the Colpitts oscillator?

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

Q14 **CORRECT** Which component filter the ripples in the rectifier circuit?

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

Q15 **INCORRECT** Which parameter is maintained constant in zener diode?

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

Q16 **INCORRECT** What is the meaning of maximum safe reverse voltage across a diode?

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

Q17 **INCORRECT** 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
- C. Voltage across zener reached 0.3V
- D. Voltage across it reached the zener voltage

Q18 **INCORRECT** What is the output pulse frequency of the full wave rectifier with input frequency of 50 Hz?

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

Q19 **INCORRECT** Which diode is used in low power communication circuits?

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

Q20 **INCORRECT** What is the disadvantage of the two diode full wave rectifier compared with a bridge rectifier?

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

Q21 **INCORRECT** What is the process of adding impurities to a pure semi conductor material?

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

Q22 **INCORRECT** Which impurity is added to form P - type semiconductor material?

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

Q23 **INCORRECT** Which impurity is added to pure semiconductor to form N-type material?

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

Q24 **CORRECT** What is the output frequency of the pulsating DC in a two diode fullwave rectifier?

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

Q25 **CORRECT** What is the name of the process of converting AC into DC voltage?

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

Q26 **CORRECT** What is the effect on the output voltage in a bridge rectifier circuits, with one diode open?

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

Q27 **INCORRECT** Which bonding material is used for soldering a joint?

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

Q28 **INCORRECT** Which step is important for soldering a joint?

A. Heating the joint

B. Cooling the joint

C. Pasting the joint

D. Cleaning the joint

Q29 **INCORRECT** What is the range of temperature used in soldering station?

A. 150 Degree Centigrade to 450 Degree Centigrade

B. 450 Degree Centigrade to 600 Degree Centigrade

C. 600 Degree Centigrade to 800 Degree Centigrade

D. 800 Degree Centigrade to 1000 Degree Centigrade

Q30 **INCORRECT** What is the name of flux used for soldering electronic components?

A. Resin

B. Rosin

C. Mild acid

D. Organic acid

Q31 **INCORRECT** How many types of soldering is used for joining metal surfaces?

A. Two

B. Five

C. Four

D. Three

Q32 **INCORRECT** What is the full form of the abbreviation SPDT used in switches?

A. Single Phase Dual Throw

B. Single Pole Single Throw

C. Single Pole Double Throw

D. Shared Pole Double Throw

Q33 **INCORRECT** Which ratio of tin-lead combination is used for electronic component soldering work?

A. 40:60

B. 20:40

C. 60:40:00

D. 63:37:00

Q34 **INCORRECT** When does the rosin flux melts in a soldering process?

A. After the solder melts

B. When the solder is melting

C. During the solder is melting

D. When the solder is heated

Q35 **INCORRECT** What is the full of the abbreviation DPDT used in switches?

A. Dual Phase Dual Throw

B. Double Pole Direct Throw

C. Direct Pole Double Throw

D. Double Pole Double Throw

Q36 **INCORRECT** How much time is required to make a quality soldered joint using soldering iron?

A. 3 - 7 seconds

B. 7 - 10 seconds

C. 10 - 15 seconds

D. 15 - 20 seconds

Q37 **INCORRECT** Which type of soldering is used for electronic circuit?

A. Brazing

B. Soft soldering

C. Hot soldering

D. Hard soldering

Q38 **INCORRECT** Which tool works on the principle of air suction?

A. Soldering iron

B. Soldering wick

C. Desoldering braid

D. Desoldering pump

Q39 **INCORRECT** Which soldering instrument has hot air blowing facility?

A. Soldering iron

B. Soldering station

C. Wave soldering machine

D. Temperature controlled soldering iron

Q40 **CORRECT** What is produced by the power supply connected soldering iron?

A. Fire

B. Heat

C. Cool air

D. Water vapour

Q41 **INCORRECT** How the flux residue is removed after soldering a joint?

A. Water

B. Petrol

C. Organic flux

D. Isopropyl alcohol

Q42 **INCORRECT** What is the effect of over heating on soldering a joint?

A. Cold joint

B. Poor wetting

C. Dull grainy surface

D. Flux trapped against lead

Q43 **INCORRECT** 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

Q44 **INCORRECT** Why the solvent Iso Propyl Alcohol (IPA) is used on the solder joint?

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

Q45 **INCORRECT** 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

Q46 **CORRECT** What is the current gain of common collector amplifier?

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

Q47 **CORRECT** What in the current gain of a common ? base amplifier?

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

Q48 **CORRECT** 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

Q49 **INCORRECT** 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

Q50 **INCORRECT** What is the name of multi-stage amplifiers?

A. Cascoded amplifier

B. Cascaded amplifier

C. Complementary symmetry amplifier

D. Darlington pair amplifier

Q51 **INCORRECT** How the negative feedback is called?

A. Regenerative feedback

B. Degenerative feedback

C. Current controlled feedback

D. Voltage controlled feedback

Q52 **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

Q53 **INCORRECT** 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

Q54 **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

Q55 **INCORRECT** 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

Q56 **INCORRECT** What type of packaging is generally used to transistors utilized for low power amplification?

A. Metal packaging

B. Plastic packaging

C. Ceramic packaging

D. Plastic packaging with metal heatsinks

Q57 **INCORRECT** Which type of packaging is used to transistors utilized for medium power amplification?

A. Plastic packaging with metal heatsinks

B. Ceramic packaging

C. Plastic packaging

D. Metal packaging

Q58 **INCORRECT** Which type of amplifier is used to operate the loud speaker?

A. IF amplifier

B. RF amplifier

C. Power amplifier

D. Voltage amplifier

Q59 **INCORRECT** Which parameter of passive component can be calculated using the formula ?

A. Capacitance

B. Inductance

C. Capacitive reactance

D. Inductive reactance

Q60 **INCORRECT** Which type of amplifier is used to operate the loud speaker?

A. IF Amplifier

B. RF Amplifier

C. Power Amplifier

D. Voltage Amplifier

Q61 **INCORRECT** How can you confirm a transistor as defective?

A. By circuit testing

B. By ohm meter testing

C. By physical testing

D. By voltage measurements