

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

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Student Name	sudeep	Access Code	4821
Attempt No.	#1	Completion Time	11:41 AM
Rank	#17	Total Questions	61

25 SCORE

61 MAX MARKS

25 CORRECT

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

A. Oscillator ☒

B. Amplifier

C. Multiplexed

D. Demodulator

Q10 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** Which component filter the ripples in the rectifier circuit?

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

Q15 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** Which impurity is added to form P - type semiconductor material?

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

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

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

Q24 **INCORRECT** 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 **CORRECT** Which bonding material is used for soldering a joint?

A. Oil ☐

B. Flux ☐

C. Acid ☐

D. Grease ☐

Q28 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** Which type of soldering is used for electronic circuit?

A. Brazing

B. Soft soldering ☒

C. Hot soldering

D. Hard soldering

Q38 **CORRECT** 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 **CORRECT** 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 **INCORRECT** What is the current gain of common collector amplifier?

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

Q47 **INCORRECT** What is 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** Which type of amplifier is used to operate the loud speaker?

A. IF Amplifier

B. RF Amplifier

C. Power Amplifier ☒

D. Voltage Amplifier

Q61 **CORRECT** 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