

Sri Mahalingeswara ITI

ITI Quiz - 30-May-2026 02:28 PM

Q. ID: ITISKILL2096A3 | May 2026

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Student Name	Darshan k s	Access Code	6580
Attempt No.	#1	Completion Time	10:52 AM
Rank	#28	Total Questions	50

18 SCORE

50 MAX MARKS

18 CORRECT

32 INCORRECT

Answer Review

Q1 INCORRECT How many inputs are available in the 7447 BCD-to-seven segment decoder used to drive the LED display?

A. One ☐

B. Four ☒

C. Seven ☐

D. Eight ☐

Q2 CORRECT What is the power supply required to operate the most standard TTL ICs properly?

A. + 1.5v to +2.5V ☐

B. - 1.5v to - 2.5V ☐

C. + 4.75v to + 5.25V ☒

D. + 7.5v to + 12V ☐

Q3 **CORRECT** What is the propagation delay of the standard TTL chip?

A. 5 ns

B. 8 ns

C. 10 ns ☒

D. 12 ns

Q4 **INCORRECT** What is the power dissipation of the standard TTL chip?

A. 5 mW/gate ☐

B. 10 mW/gate ☒

C. 15 mW/gate

D. 20 mW/gate

Q5 **INCORRECT** What is the decimal conversion number for the octal number (2374)₈?

A. (1266)₁₀

B. (1276)₁₀ ☒

C. (1286)₁₀

D. (1296)₁₀ ☐

Q6 **CORRECT** What is the digital signal value for the analog signal value 6V?

A. 100

B. 101

C. 110 ☒

D. 111

Q7 **CORRECT** What is the decimal number for the binary number 0101?

A. 4

B. 5 ☐

C. 6

D. 7

Q8 **INCORRECT** Which IC is used for (DEMUX) function in data transmission?

A. IC 7483

B. IC 7486 ☐

C. 74 LS 138 ☐

D. 74 LS 151

Q9 **INCORRECT** Which circuits requires the flip - flops for their operation?

A. Amplifier circuits

B. Oscillator circuits ☐

C. Modulator circuits

D. Memory circuits ☐

Q10 **INCORRECT** What is the use of flip - flop?

A. It stores energy

B. It stores voltage

C. It stores current ☐

D. It stores binary information ☐

Q11 **CORRECT** What is the maximum possible number of flip-flops in a decade counter?

A. 1^n

B. 2^n ☒

C. 2^{n+1}

D. 3^n

Q12 **INCORRECT** What is the purpose of using IC74LS190?

A. Attenuator ☐

B. Comparator

C. Up/down counter ☒

D. Modulator

Q13 **CORRECT** Which IC is used for the function of 4 bit shift register?

A. IC 7404

B. IC 7447

C. IC 7493

D. IC 7495 ☒

Q14 **CORRECT** What is the information stored in digital registers?

A. Analog values

B. Binary values ☒

C. Decimal values

D. Alphanumeric values

Q15 **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

Q16 **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) ☐

Q17 **CORRECT** Which is the 3 terminal, negative voltage regulator IC?

A. LM 320

B. LM 340

C. IC 7905 ☐

D. IC 7812

Q18 **INCORRECT** Which three terminal voltage regulator IC has adjustable output?

A. LM 100 ☐

B. LM 105

C. LM 305

D. LM 317 ☐

Q19 **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

Q20 **CORRECT** What is the current rating of voltage regulator IC LM338K?

A. 2A

B. 3A

C. 4A

D. 5A ☐

Q21 **INCORRECT** Which method is followed to troubleshoot the problem causing section by the symptom?

A. Step by step method

B. Sensory test method ☐

C. Trial and error method

D. Logical approach method ☐

Q22 **INCORRECT** What is the current rating of voltage regulator IC LM317L?

A. 0.1 A ☐

B. 0.2 A

C. 0.3 A

D. 0.4 A ☐

Q23 **INCORRECT** What is the range of output voltage of regulator IC LM 317?

A. 0 to 25 V ☐

B. 0 to 30 V ☐

C. 0 to 32 V ☐

D. 1.2 V to 32 V ☒

Q24 **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 ☒

Q25 **INCORRECT** What is the common and popular application of U.J.T?

A. Multivibrator ☐

B. Voltage regulator ☐

C. Relaxation oscillator ☒

D. Motor speed controller ☐

Q26 **INCORRECT** What is the maximum forward gate current (I_g) for BFW10 JFET?

A. 5 mA ☐

B. 8 mA ☐

C. 10 mA ☒

D. 20 mA ☐

Q27 **INCORRECT** What is the package type for BF 245B?

A. TO-72

B. TO-92 ☒

C. TO-82 ☐

D. TO-102

Q28 **INCORRECT** How gate is biased in JFET?

A. AC supply function

B. Forward biased

C. Reverse biased ☒

D. Dual supply function ☐

Q29 **CORRECT** What is the gate current (I_g) of the JFET, when reverse biased?

A. Practically very low

B. Practically zero ☒

C. Practically unity

D. Practically infinity

Q30 **INCORRECT** Which is the N - channel FET?

A. AC supply connected to drain termin

B. Main current flows through N-doped material ☒

C. Main current flows through P-doped material

D. S-terminal connected to positive ☐

Q31 **INCORRECT** Which is the package type for the JFET BFW10?

A. TO-62

B. TO-72 ☐

C. TO-82

D. TO-92 ☐

Q32 **CORRECT** What is the maximum drain- source voltage, VDS for the JFET BF 245B?

A. 10 V

B. 20 V

C. 30 V ☐

D. 40 V

Q33 **INCORRECT** What is the term stands for TRIAC?

A. Triode Alternate control

B. Triode DC semiconductor

C. Triode AC semiconductor ☐

D. Triode Access console ☐

Q34 **INCORRECT** What is the maximum specified voltage for the TRIAC TIC 201D?

A. 1.5 V

B. 1.7 V ☐

C. 2.1 V

D. 2.5 V ☐

Q35 **CORRECT** What is the code number of TRIAC?

A. 2N2646

B. BFW10

C. BT136 ☒

D. 2N1597

Q36 **CORRECT** Which current flows in TRIAC between MT1 and MT2?

A. Conventional current

B. Principal current ☒

C. Reverse current

D. Leakage current

Q37 **INCORRECT** What is the switching speed of solid state relays?

A. 1 to 25 nano seconds ☐

B. 10 to 60 nano seconds

C. 1 to 100 nano seconds ☒

D. 1 to 100 milli seconds

Q38 **INCORRECT** What is the minimum current ratings of solid state relays available in low power packages?

A. Few micro Amperes ☒

B. 10 milli Ampere ☐

C. 50 milli Ampere

D. 100 milli Ampere

Q39 **INCORRECT** What is the full form of the abbreviation MOSFET?

- A. Minimum output signal FET
- B. Medium oscillator signal FET
- C. Metal oxide semiconductor FET ☐
- D. Metal organic serial FET ☐

Q40 **INCORRECT** What is the maximum blocking voltage of very high current handling IGBT modules?

- A. 440 V
- B. 1000 V ☐
- C. 5000 V
- D. 6000 V ☐

Q41 **INCORRECT** What is the input impedance of IGBT?

- A. Low input impedance ☐
- B. High input impedance ☐
- C. Medium input impedance
- D. Infinity input impedance

Q42 **CORRECT** What is the advantage of MOSFET?

- A. Fast switching speed ☐
- B. Slow switching speed
- C. Higher power gate signal
- D. Low thermal ionisation of electron-holes

Q43 **INCORRECT** What is the advantage of MOSFET?

A. Superior current conduction capability ☐

B. Low gate signal power requirements ☒

C. Very low on-state voltage

D. Low driving power

Q44 **CORRECT** What is the advantage of IGBT?

A. It has low input impedance

B. Low efficiency and slow switching

C. High efficiency and fast switching ☒

D. IGBT is a gate current driven device

Q45 **INCORRECT** What is the advantage of IGBT?

A. Low driving power ☐

B. Low gate signal power

C. Fast switching speed ☒

D. Used to isolate logic circuits

Q46 **INCORRECT** 6 What is the input impedance of IGBT?

A. Low

B. High ☒

C. Unity ☐

D. Infinity

Q47 **CORRECT** Which is the property of IGBT?

A. Low input impedance

B. High efficiency and fast switching ☒

C. Low gate signal

D. Significant power consumption

Q48 **CORRECT** What is the main advantages of IGBT over BJT?

A. Fast switching speed

B. Superior current conduction capability ☒

C. Reverse bias secondary break downs

D. Thermal limits are pushed to the edge

Q49 **INCORRECT** How many alternating layers are there in IGBT?

A. 2 layers ☐

B. 3 layers

C. 4 layers ☒

D. Single layer

Q50 **INCORRECT** Which insulation layer is used in MOSFET?

A. Silicon-di-oxide ☒

B. Arsenic material

C. Antimony material ☐

D. Germanium material