

# Sri Mahalingeswara ITI

## ITI Quiz - 30-APR-2026 02:13 P

Q. ID: ITISKILL4201GX | April 2026

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|--------------|------------|-----------------|----------|
| Student Name | shaik zaid | Access Code     | 1798     |
| Attempt No.  | #2         | Completion Time | 02:04 PM |
| Rank         | #27        | Total Questions | 20       |

13 SCORE

20 MAX MARKS

13 CORRECT

7 INCORRECT

### Answer Review

Q1 **CORRECT** What is the common and popular application of U.J.T?

- A. Multivibrator
- B. Voltage regulator
- C. Relaxation oscillator ☒
- D. Motor speed controller

Q2 **CORRECT** How gate is biased in JFET?

- A. AC supply function
- B. Forward biased
- C. Reverse biased ☒
- D. Dual supply function

**Q3** **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

**Q4** **CORRECT** 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

**Q5** **CORRECT** Which device is a unipolar transistor?

A. UJT

B. FET ☒

C. BJT

D. IGBT

**Q6** **CORRECT** What is the term stands for TRIAC?

A. Triode Alternate control

B. Triode DC semiconductor

C. Triode AC semiconductor ☒

D. Triode Access console

**Q7** **CORRECT** What is the code number of TRIAC?

A. 2N2646

B. BFW10

C. BT136 ☒

D. 2N1597

**Q8** **CORRECT** Which current flows in TRIAC between MT1 and MT2?

A. Conventional current

B. Principal current ☒

C. Reverse current

D. Leakage current

**Q9** **CORRECT** 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

**Q10** **CORRECT** 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

**Q11** **CORRECT** What is the maximum current ratings of solid state relays available in high power packages?

A. 1 Amp

B. 10 Amp

C. 40 Amp

D. 100 Amp ☒

**Q12** **INCORRECT** Which is the drain current ( $I_d$ ) in JFET?

A. Electron from drain to gate

B. Electron from source to drain ☒

C. Electron from drain to source ☐

D. Electron from gate to source

**Q13** **INCORRECT** Which is the device made and interconnected by two transistors?

A. UJT

B. SCR ☒

C. FET ☐

D. LED

**Q14** **INCORRECT** What will happen in SCR with forward biased condition and gate current is applied?

A. Reverse current conduction commences ☐

B. Forward current conduction stops

C. Reverse current turned off

D. Forward current conduction commences ☒

**Q15** **INCORRECT** How many layers of PN - junctions are used in SCR fabrication?

**A.** Two layer two junctions ☐

**B.** Four layer three junctions ☒

**C.** Three layer three junctions ☐

**D.** Three layer four junctions ☐

**Q16** **CORRECT** Which semiconductor devices are composed inside the solid state relays?

**A.** Diodes and transistors ☐

**B.** Thyristor and transistors ☒

**C.** MOSFETs and IGBTs ☐

**D.** UJYs and FETs ☐

**Q17** **INCORRECT** What is the function of solid state relay(SSR)?

**A.** Low pass filter ☐

**B.** High frequency oscillator ☐

**C.** High gain amplifier ☐

**D.** High speed switching ☒

**Q18** **INCORRECT** What type of control is used for FET?

**A.** Resistance controlled device ☐

**B.** Voltage controlled device ☒

**C.** Current controlled device ☐

**D.** Frequency controlled device ☐

Q19 **INCORRECT** Which parameter controls the current flow in a BI-polar transistor?

A. Voltage

B. Current ☐

C. Frequency ☐

D. Resistance

Q20 **CORRECT** How the solid state relays are working for increased lifetime?

A. Bulky profile

B. Slower in operations

C. Spark generated during switching

D. No moving parts to wear and tear ☐