

Sri Mahalingeswara ITI

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

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Student Name	shaik zaid	Access Code	0839
Attempt No.	#3	Completion Time	01:55 PM
Rank	#28	Total Questions	20

12 SCORE

20 MAX MARKS

12 CORRECT

8 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 **INCORRECT** 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 **CORRECT** 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 **INCORRECT** 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 ☐