

ITI Quiz - 30-APR-2026 02:13

P

Q. ID: ITISKILL4201GX

POWER ELECTRONICS
MONTHLY TEST

April 2026

Sri Mahalingeswara ITI

Question Paper

Student: Vishal Gowba

Score: 5/20 (25.00%)

Code: 1118

1. What is the common and popular application of UJT?

- A) Multivibrator (Incorrect) B) Voltage regulator
C) **Relaxation oscillator** D) Motor speed controller

2. How gate is biased in JFET?

- A) AC supply function B) Forward biased
C) **Reverse biased** D) Dual supply function (Incorrect)

3. 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 (Incorrect)

4. 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 (Incorrect) D) S-terminal connected to positive

5. Which device is a unipolar transistor?

- A) UJT B) **FET**
C) BJT D) IGBT (Incorrect)

6. What is the term stands for TRIAC?

- A) Triode Alternate control B) Triode DC semiconductor
C) **Triode AC semiconductor (Correct)** D) Triode Access console

7. What is the code number of TRIAC?

- A) 2N2646 (Incorrect) B) BFW10
C) **BT136** D) 2N1597

8. Which current flows in TRIAC between MT1 and MT2?

- A) Conventional current B) **Principal current (Correct)**
C) Reverse current D) Leakage current

9. 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 (Correct)**

D) 1 to 100 milli seconds

10. 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 (Incorrect)

11. 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 (Correct)**

12. 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 (Incorrect)

13. Which is the device made and interconnected by two transistors?

- A) UJT B) **SCR**
C) FET D) LED (Incorrect)

14. 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 (Incorrect) D) **Forward current conduction commences**

15. 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 (Incorrect)

16. Which semiconductor devices are composed inside the solid state relays?

- A) Diodes and transistors B) **Thyristor and transistors**
C) MOSFETs and IGBTs (Incorrect) D) UJTs and FETs

17. 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 (Correct)**

18. What type of control is used for FET?

- A) Resistance controlled device
- B) Voltage controlled device**
- C) Current controlled device
- D) Frequency controlled device (Incorrect)

19. Which parameter controls the current flow in a BI-polar transistor?

- A) Voltage
- B) Current**
- C) Frequency (Incorrect)
- D) Resistance

20. How the solid state relays are working for increased lifetime?

- A) Bulky profile (Incorrect)
- B) Slower in operations
- C) Spark generated during switching
- D) No moving parts to wear and tear**