

ITI Quiz - 30-APR-2026 02:13

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Q. ID: ITISKILL4201GX

POWER ELECTRONICS
MONTHLY TEST

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Sri Mahalingeswara ITI

Question Paper

Student: Yashwanth m

Score: 2/20 (10.00%)

Code: 3368

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

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

2. How gate is biased in JFET?

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

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
D) Triode Access console (Incorrect)

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 (Incorrect)
B) **Principal current**
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 (Incorrect)
C) 50 milli Ampere
D) 100 milli Ampere

11. What is the maximum current ratings of solid state relays available in high power packages?

- A) 1 Amp (Incorrect)
B) 10 Amp
C) 40 Amp
D) 100 Amp

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 (Incorrect)
D) Electron from gate to source

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 (Incorrect)
B) Forward current conduction stops
C) Reverse current turned off
D) Forward current conduction commences

15. How many layers of PN - junctions are used in SCR fabrication?

- A) Two layer two junctions (Incorrect)
B) **Four layer three junctions**
C) Three layer three junctions
D) Three layer four junctions

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

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

17. What is the function of solid state relay(SSR)?

- A) Low pass filter B) High frequency oscillator
C) High gain amlifier **D) High speed switching**
(Incorrect)

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 D) Resistance (Incorrect)

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

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