

Duration: 30 Mins

Total Marks: 25

Q.ID: ITISKILL6605DI

1. Which device generates high frequency radio frequency indeferences by the extremely rapid turn-ON time?

- A) Op-Amp B) Transistor
C) TRIAC D) UJT

Answer: C) TRIAC

2. Which type of defects are occurring in solid state relays?

- A) More sparking B) Tendency to fail shorted
C) Tendency to fail open D) Intermittent working

Answer: B) Tendency to fail shorted

3. Which device is a unipolar transistor?

- A) UJT B) BJT
C) FET D) IGBT

Answer: C) FET

4. Which is the N - channel FET?

- A) Main current flows through P-doped material B) S-terminal connected to positive
C) Main current flows through N-doped material D) AC supply connected to drain termin

Answer: C) Main current flows through N-doped material

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

- A) UJT B) SCR
C) LED D) FET

Answer: B) SCR

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

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

Answer: A) Thyristor and transistors

7. What is the term stands for TRIAC?

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

Answer: D) Triode AC semiconductor

8. Which is the package type for the JFET BFW10?

- A) TO-92 B) TO-62
C) TO-72 D) TO-82

Answer: C) TO-72

9. What is the maximum drain current ID for BFW10?

- A) 10 mA B) 20 mA
C) 5 mA D) 30 mA

Answer: B) 20 mA

10. What is the maximum specified voltage for the TRIAC TIC 201D?

- A) 2.5 V B) 2.1 V
C) 1.7 V D) 1.5 V

Answer: A) 2.5 V

11. What is the maximum power dissipation Pmax for BF 245B?

- A) 100 mw B) 200 mw
C) 400 mw D) 300 mw

Answer: D) 300 mw

12. What type of control is used for FET?

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

Answer: C) Voltage controlled device

13. What is the maximum forward gate current (I_g) for BFW10 JFET?

- A) 8 mA B) 20 mA
C) 5 mA D) 10 mA

Answer: D) 10 mA

14. What is the maximum drain current, ID for BF 245B?

- A) 25mA B) 35mA
C) 15mA D) 45mA

Answer: A) 25mA

15. 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

Answer: C) 30 V

16. How the lamp failures caused by the high inrush currents in lamp dimmer circuits using TRIAC is eliminated?

- A) By soft start circuit B) Using MCB
C) Using Safety resistor D) By the fuse

Answer: A) By soft start circuit

17. What will happen in SCR with forward biased condition and gate current is applied?

- A) Reverse current conduction commences B) Forward current conduction commences
C) Reverse current turned off D) Forward current conduction stops

Answer: B) Forward current conduction commences

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

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

Answer: D) 100 Amp

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

- A) Reverse current B) Conventional current
C) Principal current D) Leakage current

Answer: C) Principal current

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

- A) High frequency oscillator B) Low pass filter
C) High gain amplifier D) High speed switching

Answer: D) High speed switching

21. What is the load current handled by the solid state relay that must be mounted to some heatsink to protect the

device?

- A) Greater than 4 Amp B) 3 Amp
C) 1 Amp D) 2 Amp

Answer: A) Greater than 4 Amp

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

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

Answer: D) No moving parts to wear and tear

23. Which characteristics exhibits the current conduction increases while the voltage across the devices decreases in a DIAC?

- A) Nonlinearity characteristics B) Positive resistance characteristics
C) Negative resistance characteristics D) Linearity characteristics

Answer: C) Negative resistance characteristics

24. What is the package type for BF 245B?

- A) TO-72 B) TO-102
C) TO-92 D) TO-82

Answer: C) TO-92

25. What is the code number of TRIAC?

- A) BFW10 B) 2N2646
C) BT136 D) 2N1597

Answer: C) BT136