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Question Paper

Duration: 30 Mins

Total Marks: 15

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Student Name: _____ Roll No: _____

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

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

2. How gate is biased in JFET?

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

3. What is the code number of TRIAC?

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

4. Which device is a unipolar transistor?

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

5. What is the gate current (I_g) of the JFET, when reverse biased?

- A) Practically infinity B) Practically zero
C) Practically very low D) Practically unity

6. What is the minimum current ratings of solid state relays available in low power packages?

- A) Few micro Amperes B) 100 milli Ampere
C) 50 milli Ampere D) 10 milli Ampere

7. What is the term stands for TRIAC?

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

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

- A) 1.7 V B) 2.1 V

- C) 1.5 V D) 2.5 V

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

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

10. What is the switching speed of solid state relays?

- A) 1 to 100 milli seconds B) 1 to 100 nano seconds
C) 1 to 25 nano seconds D) 10 to 60 nano seconds

11. What is the maximum drain- source voltage, V_{DS} for the JFET BF 245B?

- A) 30 V B) 20 V
C) 40 V D) 10 V

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

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

13. Which is the N - channel FET?

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

14. What is the common and popular application of U.J.T?

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

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

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