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Question Paper

Duration: 30 Mins

Total Marks: 15

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Student Name: _____ Roll No: _____

1. What is the maximum drain- source voltage, VDS for the JFET BF 245B?

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

2. What is the maximum forward gate current (Ig) for BFW10 JFET?

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

3. How gate is biased in JFET?

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

4. 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

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

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

6. What is the code number of TRIAC?

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

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

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

8. What is the minimum current ratings of solid state relays

available in low power packages?

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

9. What is the term stands for TRIAC?

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

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

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

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

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

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

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

13. What is the gate current (Ig) of the JFET, when reverse biased?

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

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

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

15. Which device is a unipolar transistor?

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