

BSNL JTO Exam Paper (2005)

When a piece of copper and another of germanium are cooled from room temperature to 800 K then the resistance of

-Answer: d)

Answer: b)

When a sample of germanium and silicon having same impurity density are kept at room temperature then –

- a) Both will have equal value of resistivity
- b) Both will have equal value negative resistivity
- c) Resistivity of germanium will be higher than that of silicon
- d) Resistivity of silicon will be higher than that of germanium

Answer: d)

When an RC driving point impedance function has zeros at $s = -2$ and $s = -5$ then the admissible poles for the function would be –Answer: b)

For the n-type semiconductor with $n = N_p$ and $p =$, the hole concentration will fall below the intrinsic value because some of the holes –Answer: d)

The location of lighting arrestor is –

- a) Near the transformer
- b) Near the circuit breaker
- c) Away from the transformer
- d) None

Time constant of an RC circuit increases if the value of the resistance is –Answer: a)

Telemetry is a method of –Answer: c)

When the gauge factor of a strain gauge is 2, stress is 1050 kg/cm², $\Delta Y = 2.1 \times 10^6$ kg/cm² and R is 100 ohms then the value of DR will be -Answer: d)

As the drain voltage is increased for a junction FET in the pinch off region then the drain current –Answer: d)

11. One of the following, which is not a transducer in the true sense, is –Answer: d)

When a transistor is required to match a 100W signal source with a high impedance output circuit then the connection that would be used is –

Answer: a)

In a JFET gates are always –Answer: c)

The main factor which differentiate a DE MOSFET from an E only MOSFET is the absence of –

- a) insulated gate
- b) electrons
- c) channel
- d) P-N junction

An SCR conducts appreciable current when –

- a) Anode and gate are both negative with respect to cathode
- b) Anode and gate are both positive with respect to cathode
- c) Anode is negative and gate is positive with respect to cathode
- d) Gate is negative and anode is positive with respect to cathode

Silicon is not suitable for fabrication of light emitting diodes because it is -

- a) An indirect band gap semiconductor
- b) A direct band gap semiconductor
- c) A wide band gap semiconductor
- d) A narrow band gap semiconductor

An average responding rectifier type electronic ac voltmeter has its scale calibrated in terms of the rms value of a sine wave, when a square wave voltage of peak magnitude 100V is measured using this voltmeter then the reading indicated by the meter, will be –Answer: b)

Which one of the following conditions for Z parameters would hold for a two port network containing linear bilateral passive circuit elements –

Answer: d)

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