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97. Cut off frequency is the frequency at which magnitude of closed loop frequency response is

a) 1 db below its zero frequency b) 2 db below its zero frequency c) 3 db below its zero frequency d) 4 db below its zero frequency

Ans: (c)

98. In Nyquist criterion roots of the characteristic equation are given by

a) Zeros of open loop transfer function b) Zeros of closed loop transfer function c) Poles of closed loop transfer function d) Poles of open loop transfer function Ans: (c)

99. For all frequencies, a unit circle in the Nyquist plot transformer into

a) Db line of amplitude plot in Bode diagram

b) 1 db line of amplitude plot in Bode diagram c) Either (a) and (b) d) None of these

Ans: (c)

a) (1+T)

b) (1+S)

d) (1+Ts)

c) (Ts)

100. Transfer founction, when the bode diagram is plotted should be of the form

Ans: (d) 101. For relative stability of the system which of the following is sufficient? a) Gain margin

b) Phase margin

c) Both (a) and (b)

d) None of these

Ans: (c) 102. Slope in Bode plot is expressed as a) - 6 db/decade

b) - 6 db/octave

c) - 7 db/octave

d) - 8 db/octave

Ans: (b)

103. Polar plots for+ve and –ve frequencies

a) Are always symmetrical b) Can never be symmetrical c) May be symmetrical d) None of these Ans: (a)

104. Gain margin of a first or second order system is

a) Zero b) 100 c) 1 d) Infinity Ans: (d)

system

105. Frequency range over which response of the system is within acceptable limits is called

a) Modulation frequency b) Demodulation frequency c) Carrier frequency d) Band width Ans: (d)

106. By adding a pole at s = 0, Nyquist plot of the system will

b) Shift 90° anticlockwise c) Shift 180° d) Not change at all Ans: (a)

a) Shift 90° clockwise

107. A complex-conjugate pair of poles near the jw axis will produce a

b) Steady state mode of response c) Sinusoidal mode of response d) None of these Ans: (a)

a) High oscillatory mode of transient response

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V<sub>CF</sub> of silicon transistor is more than germanium transistor. b) The saturation voltage  $V_{\mbox{\scriptsize CE}}$  for germanium transistor is more than

Multiple Choice Question (MCQ) of Electronics page-17:

silicon transistor. c) The saturation voltage  $V_{\mbox{\footnotesize{CE}}}$  for silicon transistor is same as that for

241. Which of the following statement is true? a) The saturation voltage

d) The saturation voltage  $V_{\text{CE}}$  for silicon transistor is lower than germanium transistor.

always present in the semiconductor.

10<sup>6</sup> mho/m are a) Semiconductors

b) Conductors

Multiple Choice Question (MCQ) of Electronics page-16: 226. Which of the following statement is correct? a) Inner electrons are

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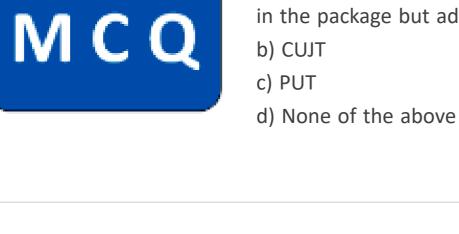
b) Bound electrons are always present in the semiconductor. c) Free electrons are always present in the semiconductor. d) Inner and bound electrons are always present in the semiconductor.

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Multiple Choice Question (MCQ) of Electronics page-15: 211. The materials whose electrical conductivity is usually less than 1  $\times$ 

c) Insulators d) Alloys

Multiple Choice Question (MCQ) of Electronics page-14: 196. In which of the following device the base resistors are not added in the package but added externally? a) UJT b) CUJT c) PUT



M C Q

Multiple Choice Question (MCQ) of Electronics page-13: 181. The conduction in JEFT is always by the a) Majority carriers b) Minority carriers c) Holes

e) Holes and electrons simultaneously

d) Electrons