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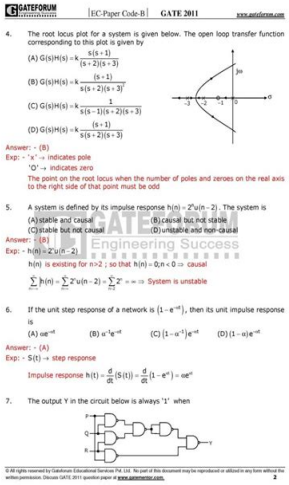

GATEFORUM [EC-Paper Code-B] GATE 2011

4. The root locus plot for a system is given below. The open loop transfer function corresponding to this plot is given by

(A) $G(s)H(s) = k\frac{s(s+1)}{(s+2)(s+3)}$

(B) $G(s)H(s) = k\frac{(s+1)}{s(s+2)(s+3)}$

(C) $G(s)H(s) = k\frac{1}{s(s-1)(s+2)(s+3)}$

(D) $G(s)H(s) = k\frac{(s+1)}{s(s+2)(s+3)}$

Answer: - (B)

Expl: - 'x' → indicates pole

'O' → indicates zero

The point on the root locus when the number of poles and zeroes on the real axis to the right side of that point must be odd

5. A system is defined by its impulse response $h(n) = 2^n u(n-2)$. The system is

(A) stable and causal (B) causal but not stable

(C) stable but not causal (D) unstable and non-causal

Answer: - (B)

Expl: - $h(n) = 2^n u(n-2)$

h(n) is existing for n>2 ; so that $h(n) = 0, n < 0 \Rightarrow$ causal

$\sum h(n) = \sum 2^n u(n-2) = \sum 2^n = \infty \Rightarrow$ System is unstable

6. If the unit step response of a network is $(1-e^{-\alpha t})$, then its unit impulse response is

(A) $\alpha e^{-\alpha t}$ (B) $\alpha^{-1} e^{-\alpha t}$ (C) $(1-\alpha^{-1})e^{-\alpha t}$ (D) $(1-\alpha)e^{-\alpha t}$

Answer: - (A)

Expl: - S(t) → step response

Impulse response $h(t) = \frac{d}{dt}(S(t)) = \frac{d}{dt}(1-e^{\alpha t}) = \alpha e^{\alpha t}$

7. The output Y in the circuit below is always '1' when

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