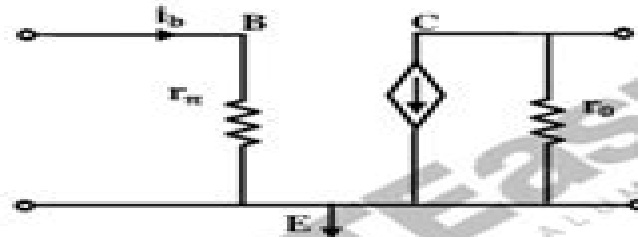


GATE 2012**Electronics & Communication Engineering****Set - A**

Q. 1 – Q. 25 carry one mark each.

1. The current i_b is through the base of a silicon nnp transistor is $1 + 0.1 \cos(10000\pi t)$ mA. At 300 K, the r_{π} in the small signal model of the transistor is



- (A) $250\ \Omega$
(B) $27.5\ \Omega$

- (C) $25\ \Omega$
(D) $22.5\ \Omega$

[Ans. C]

Given base current is a sum of DC and AC (small signal currents),

So $I_B(\text{dc}) = 1\text{mA}$ and we know $V_T = \frac{kT}{q}$ at 300 K $V_T \approx 25\text{mV}$

So $I_B(\text{dc}) = 1\text{mA}$

$$r_{\pi} = \frac{V_T}{I_B(\text{dc})} = \frac{25\text{mV}}{1\text{mA}} = 25\ \Omega$$

$$\Rightarrow r_{\pi} = 25\ \Omega$$

2. The power spectral density of a real process $X(t)$ for positive frequencies is shown below. The values of $E[X^2(t)]$ and $|E[X(t)]|$, respectively, are

Gate Paper 23

D Kirk



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