

Exp. No.:

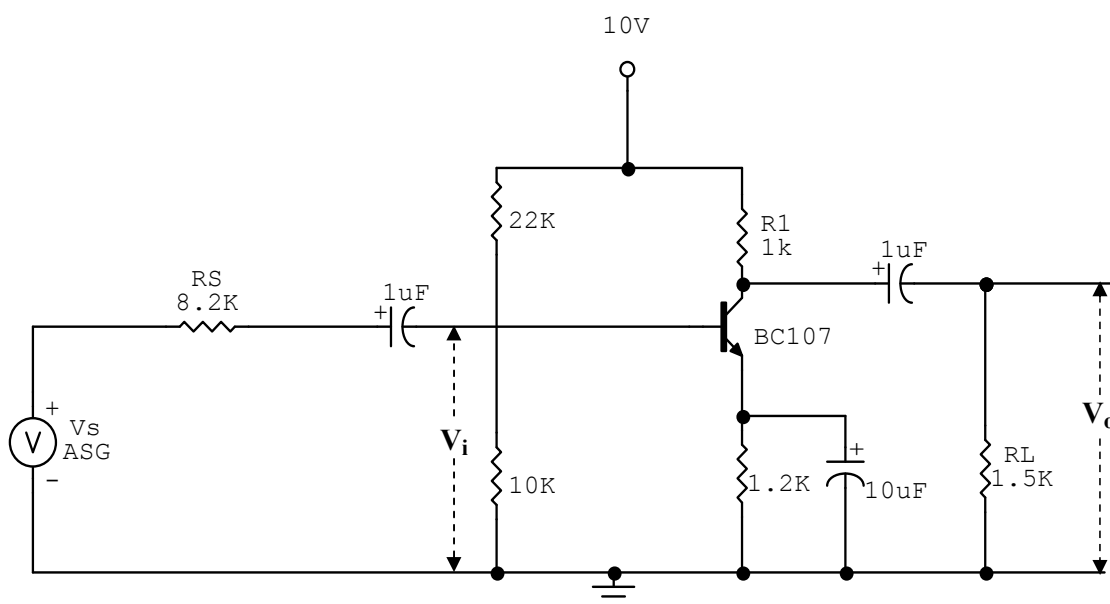
Date :

CE AMPLIFIER

AIM : To determine Bandwidth, Input & Output impedances, voltage gain, current gain and power gain of the CE Amplifier.

APPARATUS :

S.No.	Name of the Apparatus	Range	Quantity
1.	BC107	-	1No.
2.	Power Supply	0-30V	1No.
3.	Resistors (Ω)	8.2K, 22K 10K, 1.5K & 1K	Each 1No.
4.	Capacitors(F)	10 μ ,	1No.
		1 μ	2No.
5.	CRO	-	1No.

CIRCUIT DIAGRAM:**PROCEDURE:**

1. Connect the circuit as shown in figure.
2. Apply the biasing voltage of 10 V.
3. Adjust the Signal generator voltage so as to get $V_i = 40\text{mV}$ and measure V_s .
4. Vary the frequency of the signal generator from 100Hz to 1MHz, in steps and note down corresponding output voltage.

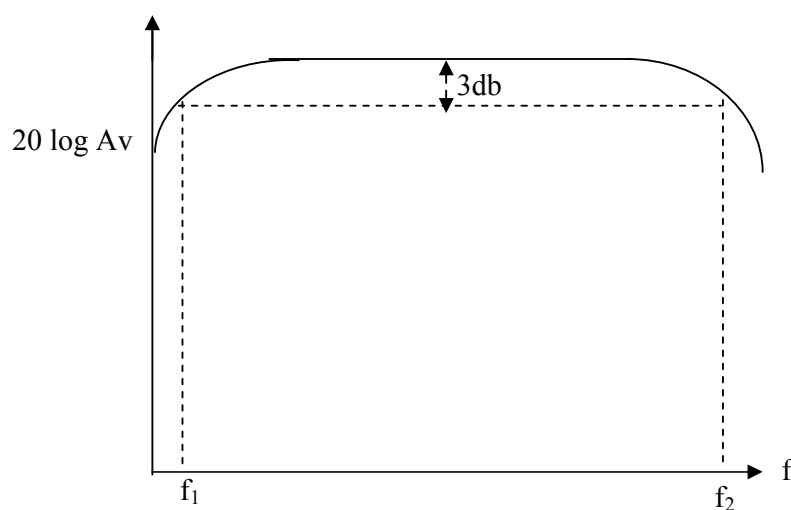
Date :

- www.jntuworld.com*

Exp. No.:

Date :

S No.	Frequency (Hz)	V_i (mV)	V_o (V)	$A_v = \frac{V_o}{V_i}$	$20 \log A_v$

MODEL GRAPH:

$$\text{Bandwidth} = f_2 - f_1 =$$

RESULTS: Input impedance(R_i) =Output impedance(R_o) =Current gain(A_i) =Voltage gain(A_v) =Power gain(A_p) =

Bandwidth =