

Sub: ANALOG CIRCUITS (TEC-242)

Class Test-III

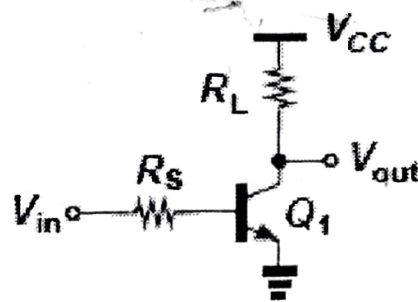
Faculty Name: Dr Balraj Singh

Time: 1 hr

M.M.: 20

Note: Attempt all questions

1. Calculate Input impedance, output impedance and gain of Common-Base (CB) Amplifier? 5
2. What are the Properties of Negative Feedback Amplifier 5
3. Derive an expression of the cut-off frequency and unity gain bandwidth for CE amplifier using High-Frequency Hybrid- π Model. 5
4. Calculate high frequency voltage gain of the given figure using inspection by poles. 5

**OR**

Write the working of Class A power amplifier. Further, derive an expression for the efficiency of the same.