I - Btech - II - Semester

## Subject: Electronic Devices and Circuits

Assignment - II

1. Explain about the construction and working of enhancement MOSFET.
2. Draw and explain voltage divider bias and derive its stability factor $S, S^{\prime}, S^{\prime \prime}$.
3. Draw the $h$-parameter model for a CE amplifier and derive expression for $A_{1}, Z_{l}, A_{V}, A_{V S}, A_{1 S} \& Z_{0}$.
4. Find various gains, input and output impedance of CE amplifier with $R_{L} 3 \mathrm{k} \Omega$ and $R_{S} 1 \mathrm{k} \Omega$.
5. Find the voltage gain of common drain amplifier.
6. What is thermal resistance? Derive the condition for thermal stability.
