Chandigarh Engineering College-CGC
Landran, Mohali, Punjab

Department of Applied Sciences

Assignment -I

Total marks-10

Branch: CSE/IOT/ME

Subject & Subject code: BEEE (25C1ECU-101) **Semester:** Ist

Date on which assignment is given: 29-08-2025 **Date of submission of assignment:** 05-09-2025

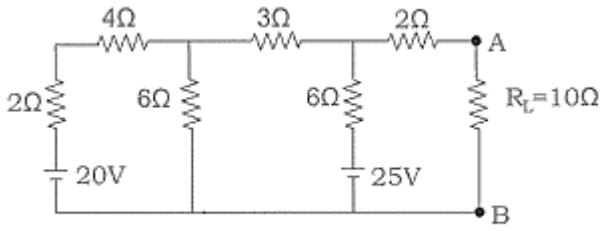
Course Outcomes:

CO1	apply the fundamental principles of theorems/laws to analyse the DC circuits.
CO2	analyse the single phase and three phase AC circuits.
CO3	interpret magnetic circuits and their role in transformers and identify key LT switchgear components.
CO4	identify the components and characteristics of diode, BJT and sensors.

Bloom's Taxonomy Levels

L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analyzing, L5 – Evaluating, L6 - Creating

Assignment related to COs	Marks	Relevance to CO No.	Blooms Levels
Q1. Compare ideal and practical current sources with diagram.	2	CO1	L2
Q2. The equation of alternating voltage is v (t) = 252 Sin 314t. Find (a) RMS value (b) Average value.	1+1	CO2	L1
Q3. Determine the expression for average value of alternating voltage having sine wave.	3	CO2	L5

Q4. Solve the circuit as shown in figure to find the current through 10Ω resistor using thevenin's theorem.  	3	CO1	L3