Assignment-1
Winter_2025
Basic Electronics (ECE113)

Instructions

- **Institute Plagiarism Policy Applicable.** This will be subjected to strict plagiarism check.
- A maximum marks for this assignment is **15**. All questions are compulsory.
- **File Submission:** Only a *.pdf* file are acceptable, which you have to submit on Google Classroom. Use A4 size sheets only (ruled or blank) to solve your assignment and scan it to create a *.pdf* file. Attempt each question on a different sheet. Do not start a new question at the back of the previous one. Do not forget to mention Page Number (bottom canter) clearly on each sheet of the assignment. Submit a *.pdf* file named *A1_ RollNo.pdf* (e.g., *A1_24500.pdf*), which containing the quality scan copy of your solved assignment.
- **Submission Policy:** Turn-in your submission as early as possible to avoid late submissions. In case of multiple submissions, the latest submission will be evaluated. Expect **No Extensions**. Late submissions will not be evaluated and hence will be awarded zero marks strictly.
- **Clarifications:** Symbols have their usual meaning. Assume the missing information & mention it in the report. Use Google Classroom for any queries. In order to keep it fair for all, no email queries will be entertained.
- There could be multiple ways to approach a question. Please justify your answers. Questions without justification will get zero marks.

[CO3] Q1: [7.5 Marks] Find the value of voltage of each capacitor at $t = 0^+$ (in Figure-1), when $V_{C1}(0^-) = 2\ V\ and\ V_{C2}(0^-) = 0\ V$.

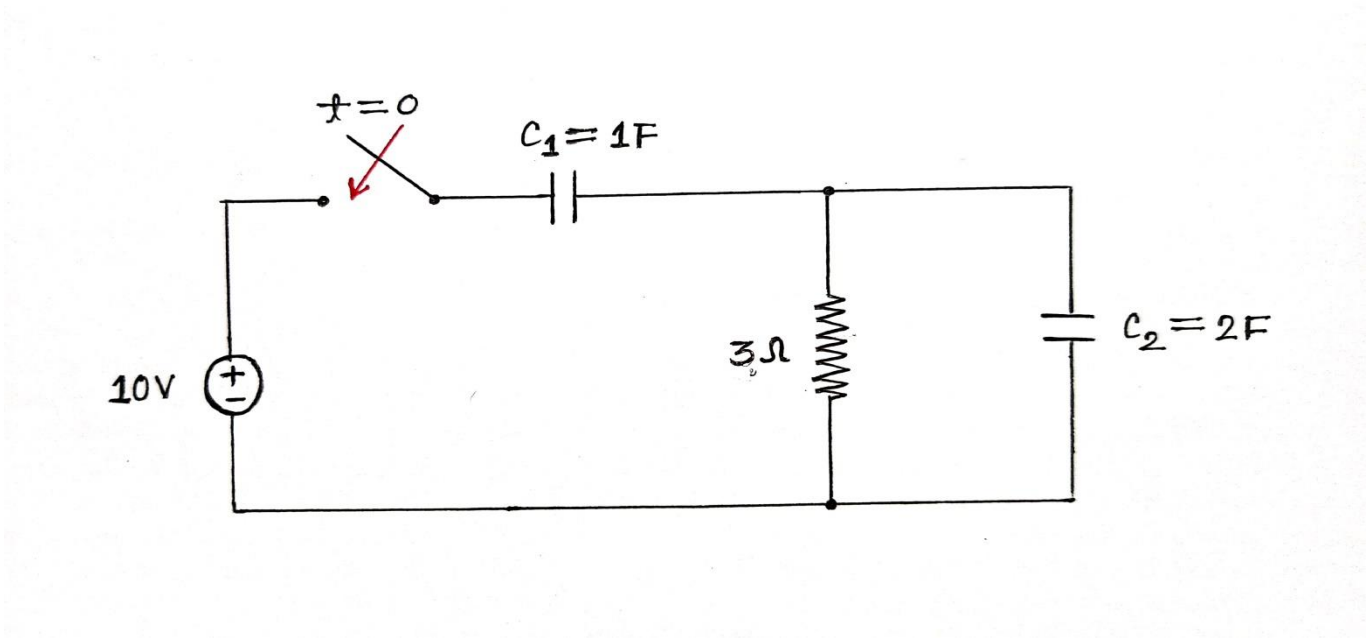

Figure 1

[CO1, CO2] Q2: [7.5 Marks] In the given Figure-2, if $V_P = 300\ V, V_Q = 100\ V$ then find the value of $(V_R - V_S)$.

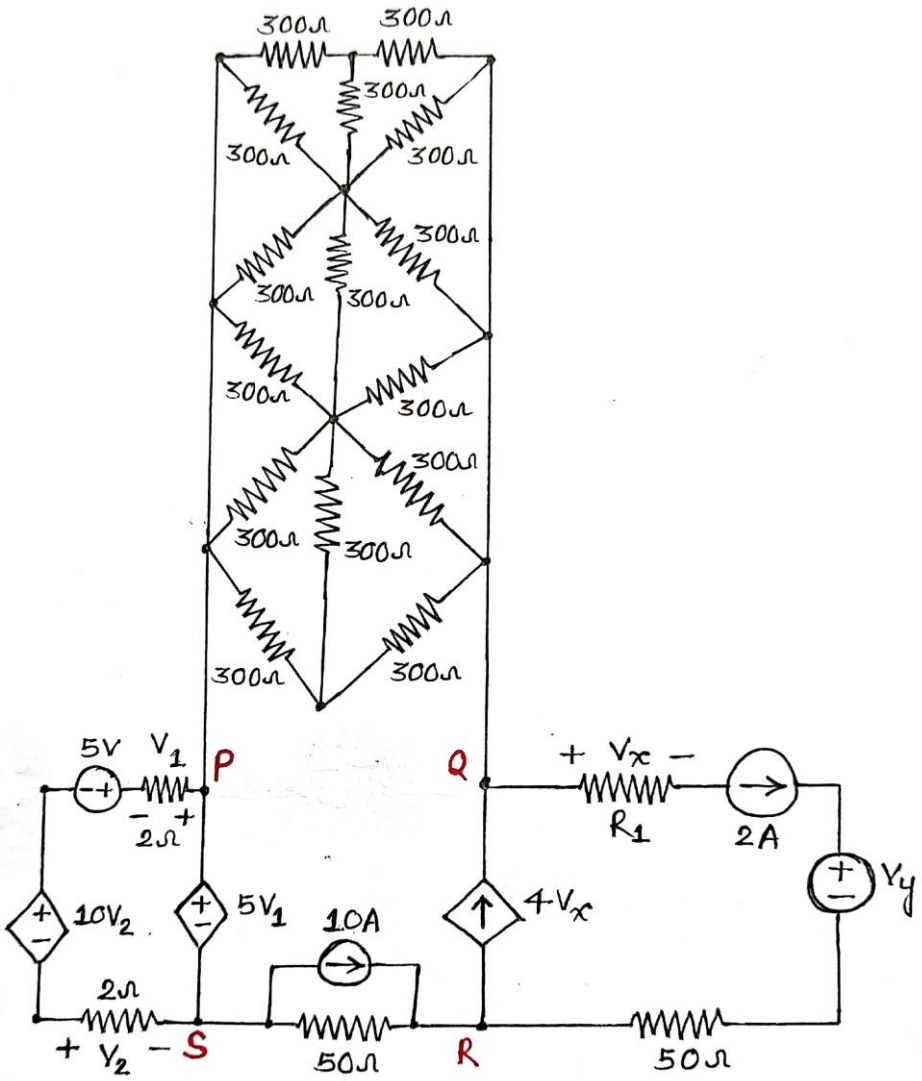

Figure 2