

Middle East Technical University
Electrical and Electronics Engineering Department

EE 281 – Electrical Circuits

Final Examination

Saturday, January 14, 2023, @9:30

Duration: 120 minutes

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Question	Points	Grade
1	25	
2	25	
3	25	
4	25	
TOTAL	100	

NOTES:

- YOU ARE NOT ALLOWED TO LEAVE THE ROOM DURING THE EXAM !
- CELL PHONES ARE STRICTLY FORBIDDEN !
- Calculators are not allowed.
- Show your work *clearly* for all problems to receive full credit. If you just provide the final results without showing the steps, you will get **zero** credit even if your answer is correct.
- Express the quantities with their units.
- Write your name and student ID on each additional sheet that you submit.

Parallel RLC circuit

$$\alpha = \frac{1}{2RC} \quad \omega_0 = \frac{1}{\sqrt{LC}}$$

Series RLC circuit

$$\alpha = \frac{R}{2L} \quad \omega_0 = \frac{1}{\sqrt{LC}}$$