

1. Capacitor: general + relationship between voltage and something (sorry forgot but something in the direction of voltage)
2. Mixed signal: DC, 50 Hz und 10kHz. How to get rid of DC? How does the corresponding transfer function and reasonable cut-off frequency look like?
3. Active shielding + drawing
4. Moving windows approach
5. Inductive coupling: countermeasures + drawing
6. Cochlea implant + can people who's sensory nerve is destroyed still use it?
7. Why does ground line not need to be shielded?
8. Diathermy: a) Method for heating more fat than muscle b) heat more muscle than fat
9. You are given two empty charts with two axes one of which you have draw the heart sounds in the other one ECG during inspiration and expiration and mark respiration something
10. How to measure velocity of action potential with micro-electronic area + give the specific value mm/ms?
11. a) surface ECG where to apply electrodes and why exact position important? b) What is Co-Contraction?
12. Draw a block diagram OR an electrical circuit of an ECG amplifier. What is the right leg drive?