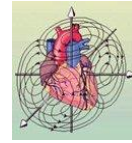




EVICAB



Bioelectromagnetism

Examination 2015.02.23

Submit this examination form as an attachment to exam@evicab.eu

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Name	
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Examination

For the part a) of the questions, please give a short answer.

For the part b) of the questions, please give a more detailed answer including discussion.

1)

- a) What is the Nernst equation?
- b) What does it describe?

2)

- a) What is the lead field?
- b) For what purpose and how is it used?

3)

- a) Describe the conduction system and the electric activation of the heart.
- b) What mechanism the heart has against defects in the activation system to ensure life?

4)

- a) What VCG system is most insensitive to misplacement of the electrodes and why?
- b) What are the benefits and drawbacks of this system in clinical practice compared to other VCG systems?

5)

- a) What is the origin of the impedance tomography image?
- b) What are the applications of this technology? What are its benefits and drawbacks?

Your answers: