

Portal: Questions for final examination in biophysics (2. LF UK, GM)

List of questions for final examination in biophysics

1. Matter structure
2. Tissue biomechanics
3. Biomechanics of fluids and blood circulation
4. Acoustics
5. Biophysics of hearing
6. Ultrasound and its medical applications
7. Doppler sonography
8. Electric and magnetic fields
9. Nuclear magnetic resonance - NMR (MRI)
10. Physiological effect of electric current and electromagnetic fields
11. Thermodynamic system
12. Thermodynamics and living organism
13. Influence of temperatures on human organism
14. Cell bioenergetics
15. Optical microscopy
16. Electron microscopy
17. Comparison of microscopic techniques
18. Laser
19. Biophysical principles in regenerative medicine
20. Liposomes and controlled drug delivery
21. Eye from the biophysical point of view
22. Fluorescence
23. Biological membrane and membrane transport
24. Cytoskeleton from the biophysical point of view
25. Tissues from the biophysical point of view
26. Biosignals (generally)
27. Electrical biosignals
28. Electrocardiography
29. Optics
30. Photometry
31. Electromagnetic ionizing radiation
32. Radioactivity
33. X-rays in medicine
34. Gamma rays in medicine