

Biophysics

(PhD entrance exam topics)

1. Biomechanics and Transport Processes
2. Energy Transduction in Biology
3. Bioelectricity
4. Photobiophysics
5. Radiation Biophysics and Dosimetry
6. Physics of Biomembranes
7. Structure and Function of Biomolecules
8. Methods in Modern Biophysics

Suggested readings:

Medical Biophysics (editors: S. Damjanovich, J. Fidy and J. Szöllősi) Medicina, Budapest, Hungary, 2009

Ph. Nelson: Biological Physics; Energy, Information, Life; W.H. Freeman and Company, New York, 2004

P. Maróti, L. Berkes, F. Tölgyesi: Biophysics problems, A Textbook with Answers. Akadémiai Kiadó, Budapest, Hungary, 1998