- 1. The clinical method used to measure blood viscosity.
- 2. The physical basis of clinical method of measuring blood pressure.
- 3. The biophysical basis of the effects of ultrasound in cells and tissues. Application of ultrasound in diagnosis and treatment.
- 4. Thermotherapy. The applications of low temperatures in medicine.
- 5. Application of direct electric current in medicine. Galvanization. Electrophoresis.
- 6. Application of the constant electric field of high voltage in medicine. Franklinization. Aeroionotherapy.
- 7. Effects of pulsed electric current on the living organism. Cranial electrotherapy stimulation. Electrical stimulators. Defibrillators.
- 8. Therapeutic factors and their application in medical techniques (UHF- and SHF-therapy, microwave resonance therapy).
- 9. Effects of magnetic fields on the living organism. Magnetotherapy.
- 10.Nuclear magnetic resonance and electron paramagnetic resonance, their application in medicine (magnetic resonance tomography).
- 11. Application of optical refractometry in pharmacy.
- 12. The principle of the concentration colorimetry, its application in pharmacy.
- 13.Polarimetry and its application in pharmacy.
- 14. The main types of the laser radiation applications in medicine.
- 15.Luminescence application in medicine and pharmacy.
- 16.Chemiluminescence and its diagnostic importance.
- 17. The principles of X-ray diagnostics (radiography) and X-ray therapy.
- 18.X-ray photoelectron spectroscopy and its application in pharmacy.
- 19.Methods of radioisotope medicine. The main physical and chemical methods of protection against ionizing radiation.
- 20. Applications of radiopharmaceuticals.
- 21.Spectral analysis and its application in pharmacy.
- 22. Visible spectroscopy and its application in pharmacy.
- 23.Ultraviolet spectroscopy and its application in pharmacy.
- 24.Infrared spectroscopy and its application in pharmacy.
- 25.Mass spectroscopy and its application in pharmacy.
- 26.Chromatography its application in pharmacy.