

SUBJECTS FOR THE PHYSIOLOGY PRACTICAL EXAM - 2nd Year English Module - Second semester, 2019/2020

1. Properties of the myocardium: The automatism of the heart. Stannius ligatures on the frog heart.
2. The influence of ions and mediators on heart activity
3. Effect of vagal stimulation on heart activity. Vagal escape
4. Myocardium excitability. Action potential in the heart and the law of periodic inexcitability of the heart.
5. Heart sounds. Auscultation. The phonocardiogram recording and analysis.
6. Carotidogram recording and analysis.
7. Jugulogram.
8. ECG – heart rhythm and heart rate
9. ECG – QRS axis
10. ECG – waves, segments and intervals
11. Peripheral manifestations of cardiac activity - Polygram.
12. Blood pressure measurement and normal parameters.
13. Blood pressure: physiological variations (e.g. with posture, physical effort); cold pressure test.
14. Pneumogram, pulmonary volumes (spirometry) and pulmonary capacities
15. Forced ventilatory flows, FEV1
16. Ventilatory flows, flow-volume loop
17. Respiratory gases analysis in blood and expiratory air. Pulsoximetry
18. Physical and chemical properties of the urine – Urinalysis
19. Urine dilution-concentration test
20. Renal clearance for urea, creatinine, cystatin C, inulin and para-aminohippurate (PAH).

The exam includes one subject from the above list and the interpretation of clinical tests: ECG recordings, polygrams, respiratory tests (flow-volume loop) or urine tests.