

**SUBJECTS FOR THE PHYSIOLOGY PRACTICAL EXAM - 2nd Year English Module - Second semester, 2017/2018**

*Date: June 7-8, 2018 (at the hour scheduled for the practical lab)*

1. Properties of the myocardium: The automatism of the heart. Stannius ligatures on the frog heart.
2. Effect of vagal stimulation on heart activity. Vagal escape
3. Properties of the myocardium: Excitability. Action potential in the heart. The law of periodic inexcitability of the heart.
4. The influence of ions and mediators on heart activity
5. Heart sounds. The phonocardiogram recording and analysis.
6. Carotidogram recording and analysis.
7. Jugulogram and Apexocardiogram.
8. Peripheral manifestations of cardiac activity. Polygram.
9. ECG: basic concepts, interpretation of normal ECG (mandatory subject to promote)
10. Blood pressure measurement; normal parameters.
11. Blood pressure: physiological variations.
12. Pneumogram, pulmonary volumes (spirometry) and pulmonary capacities
13. Forced ventilatory flows, FEV1
14. Ventilatory flows, flow-volume loop
15. Respiratory gases analysis in blood and expiratory air. Pulsoxymetry
16. Physical and chemical properties of the urine – Urinalysis
17. Urine dilution-concentration test
18. Renal clearance for urea, creatinin, cystatin C, inulin and para-aminohippurate (PAH).

The exam includes the interpretation of ECG and respiratory or urine test.