**BIOCHEMISTRY WITH ELEMENTS OF CHEMISTRY**

**LABORATORIES SCHEDULE**

**English Division – Medical Faculty - II year students**

**Winter semester - academic year 2023/2024**

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| **Data** | **Topic of laboratory** |
| **17.10. – 18.10.2023** | **1.** Analysis of oxidative stress parameters (malondialdehyde, vitamin C, thiol groups) - part 1. |
| **24.10. – 25.10.2023** | **2.** Analysis of oxidative stress parameters (uric acid, peroxidase) – part 2.  Isolation and determination of DNA. |
| **07.11. – 08.11.2023** | **TEST I.**  **3.** Determination of creatinine and bilirubin. |
| **14.11. – 15.11.2023** | **4.** Determination of ethanol and delta-aminolevulinic acid concentrations in biological material. Protein denaturation with ethanol (toxicity of ethanol). |
| **21.11. – 22.11.2023** | **5.** Examination of cathepsins activity in biological material. |
| **28.11. – 29.11.2023** | **TEST II.**  **6.** Examination of digestive enzymes activity: trypsin, amylase and pancreatin. |
| **05.12. – 06.12.2023** | **7.** Preparation and analysis of hemoglobin spectrum. Determination of iron in biological material. Electrophoretic analysis of haptoglobin. |
| **12.12. – 13.12.2023** | **8.** Determination of osmotic resistance of red blood cells. Determination of calcium in biological material. |
| **09.01. -10.01.2024** | **TEST III.**  **9.** Immunodetection (blotting and dotting). |
| **16.01. -17.01.2024** | **Second term of tests I, II and III.**  **10**. Determination of urea. |
| **30.01. - 31.01.2024** | **Third term of tests I, II and III.**  **Credit for the winter semester** |

**Reactivation of the TESTS I, II, III and making up the laboratory will be arranged individually with the teacher, after absolutely timely submission of an excuse.**

**Preterm of final exam:**

**First term of final exam: February 2. 2024, 9.00-11.00**