QUESTIONS FOR THE TOPIC "CARDIOSTEROIDS"

- 1. Definition of the terms: "Steroidal compound", "Cardiac glycoside", "Genin", "Deoxysugar", "Hydrolysis".
- 2. Structures: cholesterol, cardenolide, bufadienolide, digitoxose, acetyldigitoxose, purpurea glycoside, digitoxin, lanatoside C, convallotoxin, K-strophanthoside, adonitoxin.
- 3. Describe the proper ring configuration in cardiac glycosides.
- 4. Describe the structure-activity correlation of cardiac glycosides depending on the radical at C_{10} .
- 5. Describe the structure-activity correlation of cardiac glycosides depending on the radical at C_{17} .
- 6. Describe the structure-activity correlation of cardiac glycosides depending on the sugar part.
- 7. Distribution of Cardiac glycosides.
- 8. Physical and chemical properties of Cardiac glycosides.
- 9. Effect of different hydrolysis types on cardiac glycosides.
- 10.Extraction of cardiac glycosides.
- 11.Identification of cardiac glycosides: reactions for steroidal core/ for aglycone/ for sugars.
- 12. Quantitative determination of cardiac glycosides.
- 13. Pharmacological effect of cardiac glycosides.
- 14. Medicinal plants, plant material and families: Purple Foxglove, Grecian Foxglove, Lily-of-the-Valley, Grey Wallflower, Strophanthus (3 Species), Adonis, Oleander, Squill, Hellebore.