## **Pharmacognosy Semifinal examination** 2019/2020. II. semester

- 1. History of pharmacognosy, medicinal plants herbal/crude drugs: nomenclature, classification.
- 2. From plants to phytopharmaceuticals. Sources of herbal drugs, factors involved in their production. Quality control of crude drugs.
- 3. Compounds of primary metabolism. Carbohydrates: mono- and oligosaccharides and their drugs.
- 4. Homogenous polysaccharides and their drugs.
- 5. Heterogenous polysaccharides: gums, neutral and acidic mucilages, pectins. Polysaccharides of algae.
- 6. Chemical characterization of lipids, vegetable oils, alkyne derivatives.
- 7. Compounds of special (secondary) metabolism. The shikimic acid biosynthetic pathway. Crude drugs containing simple phenolic glycosides, benzoic and cinnamic acids and their esters.
- 8. Coumarins and coumarin containing crude drugs: medicinal application and toxicity.
- 9. Lignans and lignan containing crude drugs. Therapeutic potential of lignans. Flavonolignans and their pharmaceutical significance.
- 10. Flavonoids: biosynthesis, chemical structure and classification, biological activities, medicinal application and therapeutic significance of flavonoid containing crude drugs.
- 11. Chief flavonoid containing crude drugs.
- 12. Isoflavonoids and rotenoids: chemistry and therapeutic significance. Anthocyanins and the chief anthocyanin containing crude drugs.
- 13. Polyphenols in the Zingiberaceae family: diarylheptanoids and arylalkanones.
- 14. Tannins: Classification and therapeutic significance of tannins. Structure and properties of hydrolysable and condensed tannins.
- 15. Chief tannin containing crude drugs.
- 16. Laxative hydroxyanthraquinone glycosides. Pharmacological properties. Main crude drugs containing hydroxyanthraquinone glycosides.
- 17. Polyketides, quinones. Naphthoquinone containing crude drugs. Naphthodianthrone and diterpene quinone containing crude drugs. Orcinols and phloroglucinols.