

State exam syllabus for

Pharmaceutical chemistry and pharmaceutical analysis

1. Sedative and hypnotic drugs, anxiolytics.
2. Anticonvulsant (Antiepileptic) and Antiparkinson drugs.
3. Antipsychotic and Antidepressant drugs.
4. Psychostimulant and nootropic drugs.
5. Opioid analgesic (narcotic analgesic) and nonnarcotic analgesic drugs.
6. Non-steroidal anti-inflammatory drugs (NSAID).
7. Drugs affecting the parasympathetic autonomic nervous system.
8. Drugs affecting the sympathetic autonomic nervous system.
9. Skeletal muscle relaxants and anesthetics.
10. Antihistamines and antiulcer drugs.
11. Beta-blockers (β - blockers), Antiarrhythmic and Anti-anginal drugs.
12. Calcium channel blockers and ACE inhibitors.
13. Hypolipidemic drugs, Coagulant and Anticoagulant drugs.
14. Diuretic drugs.
15. Antibacterial Sulfonamide drugs and Antituberculosis drugs.
16. Antibacterial drugs: Imidazoles, nitrofurans, quinolines, quinolones and naphthyridines
17. Antineoplastic drugs (anticancer drugs).
18. Antibiotics, β -lactams.
19. Tetracycline, Macrolide, Lincomycin and Aminoglycoside antibiotics.
20. Antiviral drugs.
21. Steroids: anti-inflammatory, antiasthma drugs and drugs with application in dermatology.
22. Sex hormones and derivatives, anabolic, oral contraceptives and antidiabetic drugs.
23. Drug metabolism.
24. Chromatographic methods for analysis.
25. Spectral methods for analysis.

Knowledge required: Chemical and pharmacological classification, pharmacological characterization of the group of drugs, INN names, chemical structures and chemical names, synthesis, physical and chemical properties, metabolism, relation chemical structure / biological activity.

Literature:

1. Medicinal Chemistry, W. Foye, Th. Lemke, D. Williams, Williams&Wilkins, 1995.
2. Medicinal Chemistry, G. Patrick, Oxford University Press, 2001.
3. Textbook of Organic and Pharmaceutical Chemistry, J. Delgado, W. Remers, Lippincott-Raven, 1998.
4. Pharmaceutical Chemistry, H. Roth, A. Kleeman, T. Beisswenger, John Wiley&Sons, 1988.
5. Drug Information 2001, American Society of Health-System Pharmacist.
6. Drug Actions, E. Mutschler, H. Derendorf, 1995.
- 7 The Merck Index, 1983.
- 8 Index Nominum International Drug Directory, 2000.

Chief of Department:



(Professor Peikov, Phd)

A handwritten signature in blue ink, appearing to be "Peikov", written over the stamp and text.