

STATE EXAM

Pharmacology, Pharmaceutical Chemistry, Pharmacognosy

1.	<p>Hypnotic and anxiolytic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to aid sleep (radix, flos, folium, folium cum flore).</p>
2.	<p>Antidepressant drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used: • in depression • for symptoms of fatigue and sensation of weakness treatment (folium, semen)</p>
3.	<p>Antipsychotic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to aid sleep (herba, aetheroleum).</p>
4.	<p>Antiepileptic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for relief of symptoms of mental stress (aetheroleum, herba).</p>
5.	<p>Antiparkinsonic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for relief of symptoms of mental stress (folium, radix, flos, folium cum flore, rhizoma et radix).</p>

6.	<p>General and local anaesthetics</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for muscles pain treatment.</p>
7.	<p>Analgesics (morphine-like drugs)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for minor articular pain treatment (radix, herba).</p>
8.	<p>Analgesic-antipyretic drugs and NSAIDs; antirheumatoid agents</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for minor articular pain treatment (flos, aetheroleum, cortex).</p>
9.	<p>Antiarrhythmic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used: • in head pain • for urinary tract inflammations treatment</p>
10.	<p>Drugs against heart failure</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to relieve: • nervous cardiac complaints • symptoms of fatigue and sensation of weakness (radix, rhizoma).</p>
11.	<p>Antihypertensives</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for veins diseases treatment (rhizoma, cortex, fructus recens, herba, aetheroleum).</p>

12.	<p>Drugs influencing RAAS</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to increase the amount of urine (herba [cum kalii aut silicio], folium [cum kalii aut silicio]).</p>
13.	<p>Lipid-lowering drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used: • as hypolipidemics • for obesity treatment • against vomiting</p>
14.	<p>Diuretics</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to increase the amount of urine (folium [sine kalii aut silicio]).</p>
15.	<p>Drugs influencing vessel tone - vasodilators and vasoconstrictors² antihypertensive drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for veins diseases treatment (folium, semen).</p>
16.	<p>Drugs influencing blood coagulation</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for bruises treatment.</p>

17.	<p>Antiulcer drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for gastro-intestinal problems (radix).</p>
18.	<p>Laxative and antidiarrhoeal agents</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for constipation treatment (cortex, folium).</p>
19.	<p>Sex hormones, drugs used for contraception. Uterotonics and tocolytics.</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used in: • premenstrual syndrome • menopausal complaints • menstrual complaints</p>
20.	<p>Glucocortikoids, mineralocorticoids</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to increase the amount of urine (herba cum radice, radix).</p>
21.	<p>Antidiabetic drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for constipation treatment (fructus, seminis tegumentum, succus siccus).</p>

22.	<p>Drugs used in bone disorders</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used in BHP treatment.</p>
23.	<p>Antiasthmatics</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for supportive treatment of common cold (herba).</p>
24.	<p>Drugs used for cough (Antitussives and Expectorants)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for supportive treatment of common cold (radix).</p>
25.	<p>Drugs of adrenergic transmission</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for diarrhea treatment.</p>
26.	<p>Drugs of cholinergic transmission; drugs against dementia</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used: • in dementia • in loss of appetite (herba)</p>
27.	<p>Muscle relaxants (peripherally and centrally acting)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for constipation treatment (semen, rhizoma, radix).</p>

28.	<p>Antimicrobial agents that interfere with cell wall and cytoplasmic membrane (β-lactam and peptide antibiotics)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for supportive treatment of common cold (flos).</p>
29.	<p>Antimicrobial agents affecting bacterial protein synthesis (macrolides, lincosamides, oxalazidonones, aminoglycosides, tetracyclines and chloramphenicol)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for supportive treatment of common cold (aetheroleum, herba recens).</p>
30.	<p>Antimicrobial agents affecting bacterial cell nucleus (fluoroquinolones, nitroimidazoles, nitrofuranes)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for treatment of mouth inflammations (herba, aetheroleum, gummiresina, radix).</p>
31.	<p>Drugs used to treat tuberculosis (Antituberkulotics)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used to stop the cough.</p>
32.	<p>Antifungal drugs (for systemic and topic use)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used: • for foot mycoses treatment • for seborrhea and eczema treatment</p>

33.	<p>Antiviral drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for gastro-intestinal problems (herba [familia Lamiaceae]).</p>
34.	<p>Antiprotozoal drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for gastro-intestinal problems (herba non familia Lamiaceae).</p>
35.	<p>Anticancer drugs</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for treatment of mouth inflammations (folium, thallus, rhizoma).</p>
36.	<p>Histamine antagonists (Antihistamines)</p> <p>Pharmacodynamic and pharmacokinetic properties, therapeutic use, unwanted effects.</p> <p>Pharmacochemical aspects of the compounds within given class and their chemical structure, comprehensive molecular structure-biological activity relationships, metabolic pathways.</p> <p>Natural drugs used for treatment of skin inflammations (flos, herba).</p>