



منهاج امتحان المعادلة لشهادة الصيدلة والذي سيعمل به اعتبارا من امتحان رقم ٣٦ في كانون الاول
٢٠١٩

Syllabus	References
Clinical Biochemistry: Chapter 3: The Kidney Chapter 11: Thyroid function Chapter 17: Liver disorder and gall stones Chapter 27: Inborn errors of metabolism	Clinical biochemistry and metabolic medicine By Martin A. Crook.
Clinical pharmacy: Chronic Kidney Disease and End-Stage Renal Disease (chapter 18) Hypertension (chapter 19) Thrombosis (chapter 23) Asthma (chapter 25) Affective Disorders (chapter 29) Tuberculosis (chapter 41) Leukemia (chapter 51) Glaucoma (chapter 56)	Clinical Pharmacy and Therapeutics. 6 th edition 2019. By Cate Whittlesea and Karen Hodson.
Pharmaceutics Chapter 5: Nonelectrolytes Chapter 7: Ionic Equilibria Chapter 17: Coarse Dispersions Chapter 2: New Drug Development and Approval Process Chapter 5: Dosage Form Design: Biopharmaceutical and Pharmacokinetic Considerations Chapter 8: Tablets	Martin's Physical Pharmacy and Pharmaceutical Sciences: Physical Chemical and Biopharmaceutical Principles in the Pharmaceutical Sciences, 6th Edition Editors: Sinko, Patrick J. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 9th Edition Authors: Allen, Loyd V.; Popovich, Nicholas G.; Ansel, Howard C.



<p>Pharmacognosy:</p> <p>Alkaloids Glycosides Antibiotics</p>	<p>Pharmacognosy by Tylor or Pharmacognosy by Trease and Evans</p>
<p>Pharmacology:</p> <p>UNIT II: Drugs Affecting the Autonomic Nervous System: Chapter 3: The Autonomic Nervous System Chapter 4: Cholinergic Agonists Chapter 5: Cholinergic Antagonists Chapter 6: Adrenergic Agonists Chapter 7: Adrenergic Antagonists</p> <p>UNIT IV: Drugs Affecting the Cardiovascular System Chapter 17: Antihypertensive Chapter 18: Diuretics Chapter 19: Heart Failure Chapter 20: Antiarrhythmic Chapter 21: Antianginal Drugs Chapter 22: Anticoagulants and Antiplatelet Agents Chapter 23: Drugs for Hyperlipidemia</p>	<p>Lippincott Illustrated Reviews: Pharmacology Sixth Edition.</p>
<p>Pharmaceutical chemistry:</p> <p>Physiochemical properties (drug distribution, pro-drug approach, drug metabolism, protein binding of drug, acidic and basic drugs and percent ionization, partition coefficient, QSAR model, combination chemistry, receptors, forces involved in drug receptor interaction, steric features of drugs, optical isomerism and biological activities, calculated conformation, Computer simulation technique, isosterism.</p>	<p>Wilson and Gisvold's Textbook of ORGANIC MEDICINAL AND PHARMACEUTICAL CHEMISTRY</p>



<p>Biotransformation of drugs and related compounds metabolism. Enzymes involved in drug metabolism place I reaction, oxidation, reduction, hydrolysis, phase II reactions, conjugation</p> <p>Chapter that cover the narcotic analgesics, anti-inflammatory drug, steroid hormones, cholinergic drugs, adrenergic drugs, antineoplastic drugs, antibiotics and antimicrobials.</p> <p>Atomic and molecular structure. Complexes and chelating agents. Radioisotopes and radiopharmaceutical preparations, contrast media, essential trace elements.</p>	<p>Inorganic medicinal and pharmaceutical chemistry by: Block and Wilson.</p>
<p>Ultra-violet spectroscopy, Infra-red spectroscopy Mass spectroscopy. Nuclear magnetic resonance spectroscopy.</p>	<p>Spectroscopic identification of organic compounds, by R. M. Silverstein</p>



منهاج امتحان المعادلة لشهادة الصيدلة والذي سيعمل به اعتبارا من امتحان رقم 33 في اذار 2019

Syllabus	References
Clinical Biochemistry: Chapter 3: The Kidney Chapter 11: Thyroid function Chapter 17: Liver disorder and gall stones Chapter 27: Inborn errors of metabolism	Clinical biochemistry and metabolic medicine By Martin A. Crook.
Clinical pharmacy: Osteoporosis Dyslipidemia Cirrhosis and portal hypertension Respiratory tract infections (lower and upper) Diabetes Mellitus. Nutritional evaluation and support. Heart failure. Epilepsy.	Pharmacotherapy Handbook. Tenth Edition. 2017. By Joseph T. DiPiro
Pharmaceutics Chapter 5: Nonelectrolytes Chapter 7: Ionic Equilibria Chapter 17: Coarse Dispersions Chapter 2: New Drug Development and Approval Process Chapter 5: Dosage Form Design: Biopharmaceutical and Pharmacokinetic Considerations Chapter 8: Tablets	Martin's Physical Pharmacy and Pharmaceutical Sciences: Physical Chemical and Biopharmaceutical Principles in the Pharmaceutical Sciences, 6th Edition Editors: Sinko, Patrick J. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 9th Edition Authors: Allen, Loyd V.; Popovich, Nicholas G.; Ansel, Howard C.



<p>Pharmacognosy:</p> <p>Alkaloids Glycosides Antibiotics</p>	<p>Pharmacognosy by Tylor or Pharmacognosy by Trease and Evans</p>
<p>Pharmacology:</p> <p>UNIT II: Drugs Affecting the Autonomic Nervous System: Chapter 3: The Autonomic Nervous System Chapter 4: Cholinergic Agonists Chapter 5: Cholinergic Antagonists Chapter 6: Adrenergic Agonists Chapter 7: Adrenergic Antagonists</p> <p>UNIT IV: Drugs Affecting the Cardiovascular System Chapter 17: Antihypertensives Chapter 18: Diuretics Chapter 19: Heart Failure Chapter 20: Antiarrhythmics Chapter 21: Antianginal Drugs Chapter 22: Anticoagulants and Antiplatelet Agents Chapter 23: Drugs for Hyperlipidemia</p>	<p>Lippincott Illustrated Reviews: Pharmacology Sixth Edition.</p>
<p>Pharmaceutical chemistry:</p> <p>Physiochemical properties (drug distribution, pro-drug approach, drug metabolism, protein binding of drug, acidic and basic drugs and percent ionization, partition coefficient, QSAR model, combination chemistry, receptors, forces involved in drug receptor interaction, steric features of drugs, optical isomerism and biological activities, calculated conformation, Computer</p>	<p>Wilson and Gisvold's Textbook of ORGANIC MEDICINAL AND PHARMACEUTICAL CHEMISTRY</p>



<p>simulation technique, isosterism.</p> <p>Biotransformation of drugs and related compounds metabolism. Enzymes involved in drug metabolism place I reaction, oxidation, reduction, hydrolysis, phase II reactions, conjugation</p> <p>Chapter that cover the narcotic analgesics, anti-inflammatory drug, steroid hormones, cholinergic drugs, adrenergic drugs, antineoplastic drugs, antibiotics and antimicrobials.</p> <p>Atomic and molecular structure. Complexes and chelating agents. Radioisotopes and radiopharmaceutical preparations, contrast media, essential trace elements.</p> <p>Ultra-violet spectroscopy, Infra red spectroscopy Mass spectroscopy. Nuclear magnetic resonance spectroscopy.</p>	<p>Inorganic medicinal and pharmaceutical chemistry by: Block and Wilson.</p> <p>Spectroscopic identification of organic compounds, by R. M. Silverstein</p>
--	--