



منهاج امتحان معادلة شهادة الصيدلة والذي سيعمل به اعتبارا من امتحان رقم ٤٣ في  
حزيران ٢٠٢٢

Syllabus	References
<p><b>Clinical Biochemistry</b> Chapter 12 :Carbohydrate Metabolism. Chapter 13 : Plasma Lipids and Lipoproteins . Chapter 15: Vitamins , Trace Elements and Metals. Chapter 17: Liver Disorders and Gallstones. Chapter 18:Plasma Enzymes in Diagnosis (Clinical Enzymology).</p>	<p>Clinical Biochemistry and Metabolic Medicine 8<sup>th</sup>edition by Martin A Crook</p>
<p><b>Clinical pharmacy</b> 1-Dyspepsia, peptic ulcer disease and gastrooesophageal reflux disease (chapter 12) 2-Inflammatory bowel disease (chapter 13) 3-Coronary heart disease (chapter 20) 4-Chronic obstructive pulmonary disease (chapter 26) 5-Epilepsy (chapter 31) 6-Urinary tract infections (chapter 37) 7-Thyroid and parathyroid disorders (chapter 44) 8-Rheumatoid arthritis and osteoarthritis (chapter 54)</p>	<p>Clinical pharmacy and therapeutics. Sixth edition 2019. Edited by Cate Whittlesea and Karen Hodson.</p>
<p><b>Pharmaceutics</b> Chapter 2: States of Matter Chapter 8: Buffered and Isotonic Solutions Chapter 14: Chemical Kinetics and Stability</p> <p>Chapter 6: Powders and Granules Chapter 12: Suppositories and Inserts Chapter 14 Disperse Systems</p>	<p>Martin's Physical Pharmacy and Pharmaceutical Sciences: Physical Chemical and Biopharmaceutical Principles in the Pharmaceutical Sciences, 6th Edition Editors: Sinko, Patrick J.</p> <p>Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 9th Edition Authors: Allen, Loyd V.; Popovich, Nicholas G.; Ansel, Howard C.</p>
<p><b>Pharmacognosy:</b> Alkaloids Glycosides Antibiotics Volatile oil Chromatography</p>	<p>Pharmacognosy by Tylor 9<sup>th</sup> edition and Pharmacognosy by Trease and Evans 16<sup>th</sup> edition</p>



Syllabus	References
<p style="text-align: center;"><b>Pharmacology:</b></p> <p><b>UNIT IV: Drugs Affecting the Cardiovascular System</b>                      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><b>UNIT VII: Chemotherapeutic Drugs</b>                      Chapter 37: Principles of Antimicrobial Therapy                      Chapter 38: Cell Wall Inhibitors...483                      Chapter 39: Protein Synthesis Inhibitors                      Chapter 40: Quinolones, Folic Acid Antagonists, and Urinary Tract Antiseptic                      Chapter 41: Antimycobacterial Drugs</p>	<p>Lippincott Illustrated Reviews:                      Pharmacology Sixth Edition.</p>
<p style="text-align: center;"><b>Pharmaceutical chemistry:</b></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>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>Wilson and Gisvold's Textbook of                      ORGANIC MEDICINAL AND                      PHARMACEUTICAL CHEMISTRY</p>



Syllabus	References
<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>