

منهاج الامتحان التنافسي للطلبة المتقدمين لدراسة الدكتوراه علوم صيدلة للعام الدراسي ٢٠٢٠ - ٢٠٢١

No	department	Subject	Reference
1	Pharmacology and Toxicology	<ul style="list-style-type: none"> • Heart • Toxic response of the liver 	1- Rang and Dale pharmacology (last edition, 2020) 2- Casarett and Doull's toxicology (last edition, 2015)
2	Clinical Pharmacy	<ul style="list-style-type: none"> • Thrombosis (chapter 23) • Chronic obstructive pulmonary disease (chapter 62) 	Pharmacotherapy Principle & Practice
3	Clinical Laboratory Science	1- Medical Microbiology <ul style="list-style-type: none"> • Staphylococcus. • E - Coli 2- Clinical Biochemistry Endocrinology <ul style="list-style-type: none"> • Hypothalmu • Pituitary • Adrenal gland • Thyroid 	1- Medical microbiology Jawtz, Melnik and Adelbery's 27 th edition-2016 2- Clinical Biochemistry and Metabolic Medicine Martin crook eight edition 2012
4	Pharmaceutical Chemistry	1-Drug design, optimizing target inter action 2-Anti neoplastic agents	1- An Introduction to Medicinal Chemistry, Graham Patrick, 5 th Edition Chapter 13 2- Wilson and Gisvolds Textbook of Organic Medical and Pharmaceutical Chemistry 2012, 12 th edition chapter 10 pages 355-406
5	Pharmacognosy	1- Alkaloids 2- Chemotaxonomy of natural products	Industrial pharmacognocy by Qadry
6	Pharmaceutics	1- Products of biotechnology 2- Drug release and dissolution	1- Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, Tenth edition, Chapter 19 (For 1st topic). 2- Physical Pharmacy by Martin, 6th edition, Chapter 13 (For 2nd topic).

منهاج الامتحان التنافسي للطلبة المتقدمين لدراسة الماجستير في علوم الصيدلة للعام الدراسي ٢٠٢٠ - ٢٠٢١

No.	Department	Subject	Reference
1	Clinical Laboratory Science	1- Clinical Biochemistry: <ul style="list-style-type: none"> • Liver function. • Kidney function 2- Microbiology: Staphylococcus, E Coli 3- Immunology: Immunoglobulin (Ab).	1- <ul style="list-style-type: none"> • Clinical biochemistry and metabolic Medicine by Martine A. Crook. • Harpers Illustrated Biochemistry 2- Medical microbiology Jawtz, Melnik and Adelbery's 27th edition-2016 3- Clinical Immunology 10 th edition by Ivan M. Roitt.
2	Pharmacognosy	1-Flavonoids & glycosides 2-Volatile Oils	Pharmacognosy (BY Trease and Evans)
3	Pharmaceuticals	1- Introduction to biopharmaceutics 2- Assessment of bioavailability 3- Types of tablets	1- Aulton's Pharmaceuticals: The Design and Manufacture of Medicines, 4 th edition, Chapter 18 and Chapter 21 (For 1st and 2nd topics). 2- Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 10 th edition, Chapter 8 (For 3rd topic).
4	Clinical Pharmacy	1- Pneumonia 2- Shock and Sepsis 3- Sickle cell anemia	Clinical pharmacy and therapeutics 5 th edition , edited by Roger Walker and Cate Whittlesea 2012

منهاج الامتحان التنافسي للطلبة المتقدمين لدراسة الماجستير في الادوية والسموم للعام الدراسي ٢٠٢٠ - ٢٠٢١

Department	Subject	Reference
Pharmacology and Toxicology	a. Drug receptor interaction and pharmacodynamics b. Cholinergic system c. Adrenergic system d. The treatment of heart failure. (HF) e. Insulin and oral hypoglycemic drugs. f. Non-steroidal anti-inflammatory drugs (NSAIDs) and other anti-inflammatory agents. g. Introduction: general consideration, host factor, environmental factors of toxic effects.	(Lipincott pharmacology, last edition) (Casrett and Doull, toxicology, the Basic Science of Poisons - last edition)

منهاج الامتحان التنافسي للطلبة المتقدمين لدراسة الماجستير في الكيمياء الصيدلانية للعام الدراسي ٢٠٢٠ - ٢٠٢١

Department	Subject	Reference
Pharmaceutical Chemistry	1- Metabolic changes of drugs and related organic compounds. 2- Adrenergic agent 3- Organic Chemistry a- Stereochemistry I. stereoisomer b- Electrophilic aromatic substitution reaction c- Heterocyclic chemistry	1-Wilson and gisvold's textbook of organic medicinal 2011 12. ed chap. 2 page (3-17)(25-32) Chap 3. (pages 43-104) Chapter 16 (page 519-524) 2-Merrison & Boyd, Organic Chemistry 6 th edition Chapter 4 (page 125-164) Chapter 15 (page 517-548) Chapter 30 (pages 1057 1076)