

Competition Exam in Diploma in Clinical Pharmacy
2025- 2026

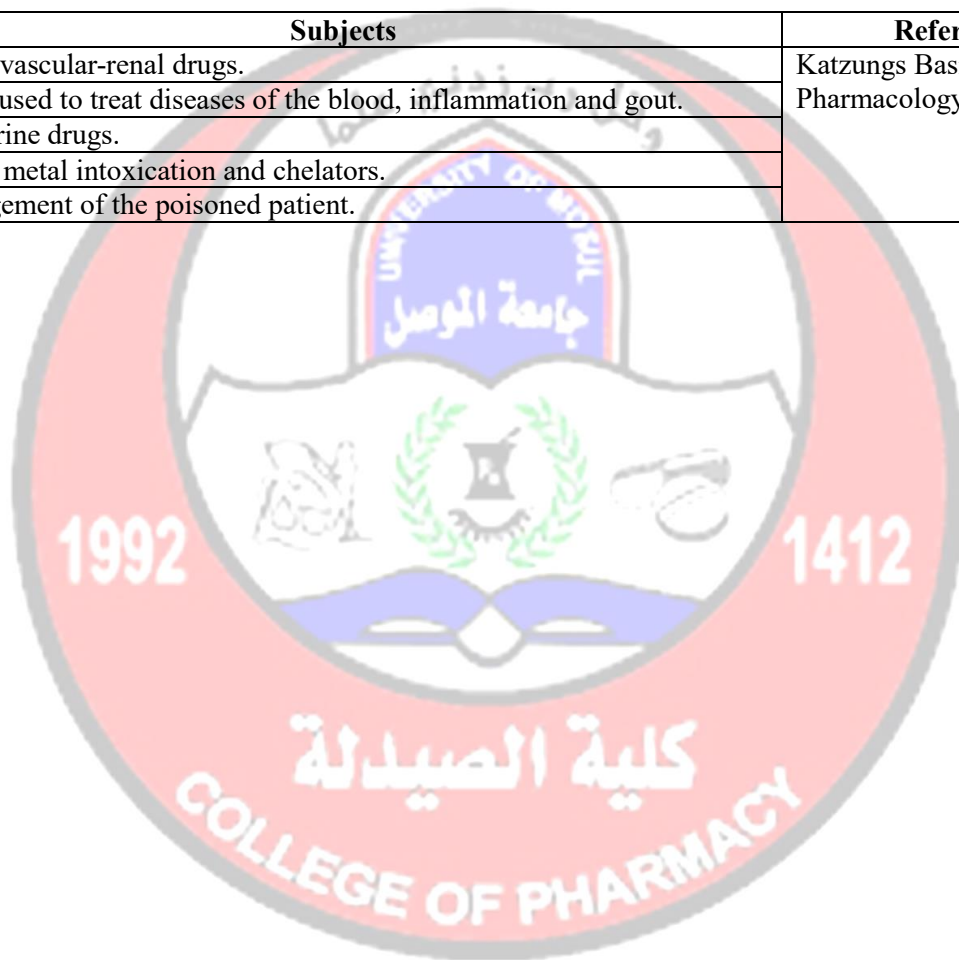
Subjects	Topics	Reference Text:
1- Clinical Pharmacy	<ul style="list-style-type: none">• Chronic obstructive pulmonary disease• Hypertension• Gastroesophageal reflex disease• Diabetes mellitus• Rheumatoid arthritis	Pharmacotherapy handbook. 12ed. 2023
2- Applied Therapeutics	<ul style="list-style-type: none">• Acute coronary syndrome• Thyroid diseases• Contraceptive• Inflammatory bowel disease• Insomnia	Pharmacotherapy handbook. 12ed. 2023
3- Therapeutic Drug Monitoring	<ul style="list-style-type: none">• Introduction to clinical pharmacokinetic and pharmacodynamic principles and calculations	Larry A. Bauer, Applied Clinical Pharmacokinetics, 3 rd edition, 2014.



Competition Exam for Master in Pharmacology

2025- 2026

Subjects	Reference Text:
Cardiovascular-renal drugs.	Katzungs Basic and Clinical Pharmacology 16th ed, 2023
Drugs used to treat diseases of the blood, inflammation and gout.	
Endocrine drugs.	
Heavy metal intoxication and chelators.	
Management of the poisoned patient.	





عناوين وتفصيل مواد الامتحان التنافسي للمتقدمين لدراسة الماجستير في اختصاص الصيدلة للعام الدراسي 2025-2026

Clinical lab. sciences	Pharmacology	Clinical Pharmacy	Pharmaceutics	Pharmaceutical chemistry	pharm cognos
I. Carbohydrates metabolism, Plasma lipids and lipoprotein and Proteins in plasma and urine. Martin A. Crook Clinical biochemistry and	Cardiovascular-renal drugs.	Hypertension	Pharmaceutical preformulation study	Antibiotics in pharmaceutical chemistry	Separation techniques (Electrochromatography)
	Heavy metal intoxication and chelators	Ischemic heart Diseases IHD	Summary on Tablet dosage form (Tablet classification)	Physicochemical properties in drug action	Alkaloids
Diagnostic microbiology Lippincott Illustrated Reviews: Microbiology; 4th Edition by Cynthia Nau Cornelissen		Diabetes Mellitus	Dissolution and solubility	Drug design: finding led compounds.	Glycosides
		Breast Cancer		Drug design: optimizing target interaction.	
		Asthma		Drug targeting in anticancer chemotherapy	
References					
	Katzung's Basic and Clinical Pharmacology 16th ed, 2023	Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics.	Pharmaceutics by Aulton, 2013	Wilson and Gisvold's Textbook of organic medicinal and pharmaceutical chemistry	Treatise on Pharmacology
		Barbara G. Wells & Joseph T. Diriro, Pharmacotherapy handbook 10th Edition		An introduction of medicinal chemistry, Graham L. Patrick.	Robbers J.E., Tyler V.E., Pharmacology and Therapeutics
				Medicinal chemistry of anticancer drugs, Carmen Avendan O and J. Carlos Mene'ndez	Pharmacokinetics and Pharmacodynamics



Competition Exam for PhD in Pharmacy

الفرع	الادوية والسموم	الكيمياء الصيدلانية	العلوم المخبرية السريرية	الصيدلة السريرية	الصيدلانيات	العقاقير والنباتات الطبية
مادة الامتحان	1. Endocrine drugs. 2. Management of the poisoned patient.	1. Antiaging agents 2. Targeting of anticancer drugs 3. Five-membered heterocyclic compounds: synthesis, reactions, and bioactivity 4. Six-membered heterocyclic compounds: synthesis, reactions, and bioactivity 5. Mechanisms of some named chemical reactions	1. The kidneys; renal function tests. 2. Liver disorders and gallstones; liver function tests. 3. Tumour markers and diagnosis. 4. Vitamins, essential fatty acids and trace elements 5. Clinically important microorganisms	1. Prostate cancer 2. Bipolar disorder 3. Arrhythmia 4. Peptic ulcer 5. Osteoporosis 6. Asthma	1. Chemical kinetics and stability 2. Biopharmaceutics 3. Molecular biotechnology: From DNA sequence to therapeutic protein	1. Glycosides 2. Alkaloids 3. Chemotherapeutics 4. Bioactive Plant Molecules, Sources and Mechanism of Action in the Treatment of Cardiovascular Disease 5. Novel Targets in Drug Discovery 6. Methods in natural product chemistry
الكتاب المعتمد	Katzung's Basic and Clinical Pharmacology 16th ed, 2023	1. Emerging Anti-Aging Strategies, Springer, 2023, Edited by Syed Ibrahim Rizvi. 2. Medicinal Chemistry Of Anticancer Drugs, Elsevier, 2008, Edited by Carmen Avendan˜o And J. Carlos MeneˆNdez. 3. Heterocyclic Chemistry, Taylor and Francis, 2020, Edited by John A. Joule. 4. Organic reaction mechanisms, John Wiley &	1. Martin A. Crook Clinical biochemistry and metabolic medicine. Eighth edition, 2012. 2. David White Clinical chemistry. Taylor & Francis Group, 2017 3. Lippincott Illustrated Reviews: Microbiology; 4th Edition by Cynthia Nau Cornelissen	Marie A. Chisholm Burns, Terry L. Schwinghammer, Patrick M. Malone, Jill M. Kolesar, P. Brandon Bookstaver, Kelly C. Lee. Pharmacotherapy Principles & Practice, 6e. 2022.	1. MARTIN'S PHYSICAL PHARMACY AND PHARMACEUTICAL SCIENCES. Physical Chemical and Biopharmaceutical. Principles in the Pharmaceutical Sciences. Sixth Edition 2. Daan J. A. Crommelin, Robert D. Sindelar Bernd Meibohm, Editors. Pharmaceutical Biotechnology Fundamentals and Applications. Fifth Edition	1. Delgoda R. Pharmacognosy: Fundamentals, applications and strategies. Academic Press; 2016 Nov 11. 2. Heinrich M, Barnes J, Prieto-Garcia J, Gibbons S, Williamson EM. Fundamentals of Pharmacognosy and Phytotherapy: Fundamentals of Pharmacognosy and Phytotherapy E-Book. Elsevier Health Sciences; 2012

Ministry of Higher
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الصحة الجيدة والرِفاه

وزارة التعليم العالي والبحث العلمي

جامعة الموصل

كلية الصيدلة

الدراسات العليا

العدد:

التاريخ: / / 20م

		Sons, 2008, Edited by A. C. Knipe				
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