

ITPD Competency Exam

Pharmaceutical Sciences – Study Guide

Suggested Study References:

PHARMACEUTICAL SCIENCES

Preferred References

- Foye's Principles of Medicinal Chemistry 7th edition. Thomas L. Lemke. Lippincott Williams & Wilkins; 2012
- Lange Brunton L L, Blumenthal D K, Murri N, Dandan R H, Knollmann B C. Goodman & Gilman's The Pharmacological Basis of Therapeutics. 12th ed. New York: McGraw-Hill, 2011
- Bertram G. Katzung, Susan B. Masters, Anthony J. Trevor. Basic & Clinical Pharmacology, 12 ed. 2012. Available electronically, McGraw-Hill.
- Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care. Edition 17. Daniel L. Krinsky
- Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems
- Basic Physical Pharmacy. 1st edition. Joseph K.H. Ma and Boka W. Hadzija. 2013
- Handbook of Basic Pharmacokinetics, Including Clinical Applications, 7e (Wolfgang Ritschel, Gregory Kearns)

Other References

- The APhA Complete Review for the FPGEE by Dick R. Gourley
- Bauer, Larry A. Applied Clinical Pharmacokinetics. McGraw-Hill. 2001.
- Pathophysiology of Disease An Introduction to Clinical Medicine, Sixth Edition (Lange Medical Books) by Stephen J. McPhee, Gary D. Hammer

Suggested Learning Objectives:

Medicinal Chemistry

- Given a backbone chemical structure, identify a specific drug, drug class, or therapeutic use.
- Given a specific drug or drug class, identify specific structure activity relationships that allow that drug or drug class to exert its pharmacological effect.
- Describe the key chemical bonding interactions between a drug and receptor.
- Define the principle of a pharmacophore and provide examples.
- Describe the major pathways of drug metabolism including phase I and II metabolism.
- Given a specific drug, delineate its therapeutic class and therapeutic use based on its pharmacology.
- Given a drug's chemical and physical properties, delineate how these properties affect its absorption, metabolism, distribution, and elimination.
- Given a drug's chemical and physical properties, apply these principles to how a drug may be dosed, monitored, or chosen for a specific therapeutic condition.
- Given a drug's pKa and a patient's pH, calculate the ratio of dissociated to undissociated drug.

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