

## **Chapter 1- Introduction**

Definition of compounding

- A. Differences between sterile and non-sterile compounding
- A. examples of sterile products
- B. examples of non-sterile products
- B. Differences between manufacturing and compounding
- C. Why we compound
- D. USP 795
- E. Compounding resources
- F. Key Terms and definitions

## **Chapter 2- Compounding equipment/dosage formulations**

- A. Formulations
- A. Topical formulations
  - a. Compounding equipment
  - b. Compounding techniques
- B. Oral formulations
  - a. Compounding equipment
  - b. Compounding techniques
- C. Rectal formulations
  - a. Compounding equipment
  - b. Compounding techniques
- B. Basic Calculation refresher ( ratio-proportion)
- C. General Compounding Process

## **Chapter 3- Topical Preparations**

- 1.Ointments/emulsions/pastes/Creams/gels/powders/otics/ patches (explain each)
- A. Recipes
- B. Compounding log sheets and records
- C. Expiration and storage
- D. Dispensing labels
- E. Calculation exercises
- F. Hands on and chapter review exercises
- G. PTCB exam review

## **Chapter 4- Oral preparations**

- 1.Capsules/tablets/powders/lozenges/troches/sticks/ solutions/emulsions/suspensions (explain each)
- A. Reconstitution
- B. Flavorings for oral liquids
  - a. Flavoring techniques
  - b. Coloring
- C. Pediatric dosing from adult formulations
- A. Recipes
- B. Compounding log sheets and records
- C. Expiration and storage
- D. Dispensing labels
- D. Capsules/Tablets/powders /gummies/chewables
- A. Sizes and properties
- B. Measuring
  - a. Weighing
  - b. Inert additives
  - c. Over encapsulation
- C. Quality assurance (+ or ? 10%)
- D. Comounding log sheets and records
- E. Expiration and storage
- F. Dispensing labels
- E. Enterals/NG tube feeding
- F. Calculations exercises
- G. Hands on and chapter review exercises
- H. PTCB exam review

## **Chapter 5- Rectal Preparations**

- A. Suppositories
- B. Enemas
  - a. Sizes and properties
  - b. Inert ingredients
- C. Quality assurance
- D. Compounding log sheets and records
- E. Expiration and storage
- F. Calculations exercises
- G. Hands on and chapter review exercises
- H. PTCB exam review

## **Chapter 6- Veterinary Compounding**

## **Chapter 7- Repackaging**