Student Learning Outcomes/Review Sheet for Exam #1

By the completion of this unit, the student will be able to do the following:

1. Define:
   - Pharmacology
   - Site of Action
   - Receptor Site
   - Mechanism of Action
   - Agonist Drug
   - Antagonist Drug
   - Lock and Key
   - Physical Dependence
   - Psychological Dependence
   - Tolerance
   - Therapeutic Effect
   - Side Effect
   - Toxic Effect
   - Additive Effect
   - Synergistic Effect

2. Describe the meaning of the concepts, enzyme inducers and enzyme inhibitors.

3. Identify from drug list which ones are enzyme inducers and enzyme inhibitors.

4. Define concepts related to Pharmacokinetics
   - Absorption
   - Distribution
   - Metabolism
   - Excretion
   - Identify factors that can influence each of these processes

5. Define Solutions.

6. Identify calibrations on:
   - insulin syringe - 100 units = 1 ml
   - tuberculin syringe – 1 mL or ½ mL
   - 3 mL, 10 mL, 20 mL syringe

7. Define percentages and ratios.

8. Identify common equivalents.
9. Describe the difference between an ampule and a vial.

10. Describe briefly the procedure in administering the following:
- Drawing medication from an ampule and a vial
- Rectal
- Nasogastric

11. Define Gauge:
   Rule: “The smaller the number, the larger the needle.”

12. Define:
- Diffusion
- Osmosis
- Filtration
- Passive Transport
- Active Transport

13. Identify abbreviations: matching basis.

14. Identify the different route of drug entry into the body and some examples:
- Enteral - define: 1) oral, 2) nasogastric, 3) rectum
- Parenteral: intradermal, subcutaneous, intramuscular, intravenous
  - Percutaneous – define and give examples

15. Identify major ways to obtain a prescription drug.

16. Identify the different parts to a prescription.

17. Identify who can write prescriptions, i.e., MD, Dentist, etc.?

18. Discuss who or what locations have a DEA #?

19. Define and match drug legislation - dates included
- Harrison Narcotic Act
- Durham-Humphrey Amendment
- Kefauver Harris Act
- Federal Food and Drug Act
- Pure Drug and Food Act
- Orphan Drug Act
- Control Substance Act
- Shirley Amendment

20. Describe the schedules 1 - 5 and the examples that belong to each of them. What is the difference between schedule 1 and schedule 4 or 5?
21. Describe the steps on how a drug becomes reviewed by the FDA for public use (New Drug Development). Phase I – Phase IV.

22. Discuss the drug nomenclature process.

23. Discuss how to use and interpret a dose-response curve and a time-response curve.

24. Identify the different types of oral medication forms.
   - Extended release capsule
   - Elixirs
   - Tablets vs. Enteric-coated Tablets
   - Syrups
   - Capsules
   - Lozenges

25. Identify the different types of topical medications.
   - Creams
   - Patches
   - Ointments
   - Etc.

26. Define the different types of interactions.

27. Describe different types of dosing.
   - Loading Dose
   - Maximum Dose
   - Etc.

28. Define major areas of pharmacology.
   - Pharmacodynamics
   - Pharmacokinetics
   - Pharmacy
   - Toxicology

29. Describe the First-Pass Effect and the routes that avoid this effect.

30. Define:
   - Bioavailability
   - Half-life
   - Incompatibility
   - Reconstitution

31. Define:
   - Buccal
- Sublingual
- Vaginal

32. Define the five pregnancy safety categories.