

2348 EXAM I REVIEW

Exam I consists of drug calculations and multiple choice questions.

Calculations – you may use a calculator

You must show your workings

You must give the correct units, for example gtts/min or ml or mcg.

Failure to do so will result in no points being awarded for that answer.

Multiple choice questions will cover the following:

history of pharmacology

drug names

drug sources

reference materials

components of a drug profile

legal regulations

schedule classification – know the names of examples

Definitions:

assay

bioequivalence

bioassay

teratogenic

therapeutic index

lethal dose

effective dose

new drug development timeline

second messenger

pharmacodynamics

pharmacokinetics

active transport

carrier mediated or facilitated diffusion

passive transport

diffusion

osmosis

filtration

ionize

bioavailability

blood-brain barrier

placental barrier

metabolism

biotransformation

prodrug

first-pass effect

oxidation

hydrolysis

receptor

affinity

efficacy

second messenger

down-regulation

- up-regulation
- agonist
- antagonist
- agonist-antagonist (partial agonist)- know an example
- competitive antagonism
- non-competitive antagonism
- irreversible antagonism side-effect
- drug-response relationship
- plasma-level profile
- onset of action
- minimum effective concentration
- duration of action
- termination of action
- biologic half-life
- medication concentration
- colloid
- isotonic solutions – know examples
- hypotonic
- hypertonic
- Central veins and peripheral vein
- Administration sets
- types of catheters
- IV insertion technique
- IV insertion complications
- FDA drug classification for new drugs
- Six rights of medication administration
- Special patients
- FDA pregnancy categories
- Drug routes –enteral and parenteral
- Drug forms
- Drug storage
- Factors affecting drug-response relationship
- Factors affecting medication elimination