Drugs and Behavior Study Guide for Exam 1

The test will include MC, T/F, and short answer/essay questions. Most test questions will come from the PPs, but I will also take some questions from the text. Be aware that some information in the PPs is not in the book, and vice versa. Anything in the readings or PPs you have been assigned is fair game. The following are some suggestions to help you focus your study.

# Introduction, Just say know, and Test your drug knowledge

# Read through these sections again. Here are some potential questions:

# Why don’t more people know the facts about drugs? Why is there so much inaccurate/misunderstood information out there?

What is the primary goal of this book?

What determines whether a drug is legal or illegal?

# Brain Basics, Drug Basics

How drugs affect the brain

Neuron and basic parts (dendrites, soma, axon, axon terminal)

Neurotransmitters and release

Receptors

Ligand

Agonist

Antagonist

Be able to come up with two examples of drugs and tell if they are an agonist or antagonist, and how they work (see slide)

How are receptors regulated by feedback?

What is up-regulation? What is down-regulation?

2 main types of receptors we discussed

Definition of drug

Route of administration - different routes. For oral and IV injection know an advantage and disadvantage of each.

Tolerance (all the different types we discussed)

Sensitization

Basic categories of drugs of abuse (stimulants, depressants, etc.)

Addiction Chapter

Psychological Dependence

Physical Dependence

Ways to define addiction (book vs. DSM)

Be able to list 3 of the criteria for AUD according to the DSM

Addiction Theories

Causes of Relapse

Neurochemistry of pleasure – what is the specific part of this pathway that drugs of abuse affect (goes from \_\_\_\_ to \_\_\_\_ and releases Dopamine)

Who can become an addict?

What are some risk factors for addiction?

Alcohol chapter

Acute alcohol effects

Action at the neuronal level

Tolerance

Withdrawal effects

Long-term health effects

Effects on developing baby

Some drug treatments

Effects on adolescent brain

Misc.

In class video clips