Review Exam 2

**Format:** 48 questions, 2 pts each. Multiple Choice
Exam given in class on March 23

**Text Material:**

**Chap 3:** p 100-103
-Split brain studies - methodology; basic results for left vs. right brain specializations; interpreter

**Chap 4:** You are responsible for material from 131-154. Focus on bold-faced terms
*Topics Covered Include*
-What is consciousness: definitions; variations; brain activity; influence of unconscious processing (the interpreter)
-What is Sleep; Definitions; Stages of sleep, and brain waves; Sleep as Adaptive Behavior; Sleep deprivation; Functions of Dreams; Sleep Disorders
- **NOT COVERED on Exam:** Drugs and Consciousness; Hypnosis; Meditation; Flow

**Chapter 6:** You are responsible for all material from pages 221-250; 254-259
Topics covered include: habituation; sensitization; classical conditioning; phobias and their treatment; drug addictions; operant conditioning; schedules of reinforcement; observational learning; Social learning of fear: Minetka monkey studies; treatment for socially learned phobia,
- **NOT COVERED on Exam:** p 231-234 (expectancy and prediction)

**Chap 7:** You are responsible for only the definitions/topics given below, from p 285-289
-antegrade vs. retrograde amnesia
-Different types of Long-term Memory: evidence for existence
  - Explicit vs. Implicit Memory
  - Declarative
  - Episodic vs. Semantic
  - Procedural
-Anatomy of Memory: type of memory associated with each of the following brain structures
  - frontal lobe
  - hippocampus
  - amygdala
  - cerebellum

**Lecture Material:** Be able to define or identify the terms listed below

I. Consciousness
-Definition
-subjective experience
-link with brain activity
-controlled vs. automatic tasks
-extreme states: know symptoms and brain activity linked with: persistent vegetative; minimally conscious states; Locked-in Syndrome; Brain Death
- **Determining Consciousness: brain imaging as way to determine existence of consciousness**
-Results of studies with coma patients

*From Video: Split-Brain Studies*
-basic split-brain anatomy; testing procedure and results
-left vs. right hemisphere specializations; results from study with faces made of books
-the interpreter: definition; basic results with Joe
II. Sleep

*Individual Variations*
- amt of sleep needed vs amt gotten
- long vs. short sleepers: genetic influences
- brain activity in sleep deprived individuals

*Effects of Sleep Deprivation*
- emotional consequences
- cognitive consequences
- health consequences
- effects on decision-making
- sleep debt
- microsleeps

*Longer Term Sleep and REM Deprivation Studies:*
- Flowerpot Technique
- REM Rebound; REM Pressure
- Peter Tripp vs. Randy Gardner
- Familial Autosomal Insomnia
- Consequences of Short-term vs. Long-term deprivation

*Dreams*
- REM vs. Non-REM dreams: characteristics & changes in brain activity associated with each

*Theories of Dreams*
- Freud: Manifest vs. Latent content; evidence?
- Evolved Threat Rehearsal: theory and evidence?
- Activation-synthesis: theory and evidence?

*Functions of Sleep*
- Lymphatic channels during sleep
- Facilitation of Learning: Non-REM vs. REM tasks/types of learning

*Sleep Disorders: know symptoms and stage of sleep in which they occur*
- Insomnia
- Hypersomnia
- Somnambulism: Case of Mr. A and sleepwalking violence
- Sleep Apnea
- Narcolepsy: cataplexy; sleep attacks
- REM Behavior Disorder

III. Learning

*Definition*

*Non-Associative*

*Classical Conditioning*
- *Pavlov’s Famous Experiment and terms*
- Be able to define and identify: UCS and UCR; CS and CR
- Acquisition; Generalization; Discrimination
- Extinction and Spontaneous Recovery

*Applying Pavlovian Conditioning*
- Development of Phobias: John Watson & Little Albert
- Fear conditioning
- Treatments for Phobias: exposure therapy; counterconditioning; systematic desensitization
- Drug addiction and classical conditioning: conditioned cravings; treatment; conditioned tolerance; implications for drug overdose

**Operant Conditioning**
- Positive vs. Negative Reinforcement: definitions and examples
- Positive vs. Negative Punishment: definitions & examples

**Observational Learning**
- Bandura & Bobo Doll: methods and results
- Consequences of model’s behavior: Vicarious reinforcement and vicarious punishment

**Applications of Observational Behavior**
- Media and violence: what is the relationship?
- Minetka monkey studies on phobias

**IV. Memory**
- H.M: know symptoms; what part of brain responsible for memory problems
- Anterograde vs. retrograde amnesia
- Different types of Long-term Memory: evidence for existence
  - Explicit vs. Implicit Memory
  - Declarative
  - Episodic vs. Semantic
  - Procedural
- Anatomy of Memory: Role of following brain structures
  - Frontal lobe
  - Hippocampus
  - Amygdala
  - Cerebellum