Psychology

**Review Sheet for the Final Exam**

**Unit 1: Intro & Research Methods**

* Case Studies, Naturalistic Observation, Surveys
* Correlation research methods
* Experimental research
* Independent vs. dependent variable
* Experimental vs. control groups
* Controls
	+ Random sampling
	+ Random assignment
	+ Double-blind
	+ Placebo
* Hindsight Bias
* Overconfidence
* Normal distribution

# Unit 2: The Biological School

* Axons, dendrites, synaptic gap, myelin sheath
* Endorphins, serotonin, dopamine
* Sympathetic nervous system
* Parasympathetic nervous system
* Brainstem
	+ medulla (heartbeat and breathing)
	+ reticular formation (arousal center)
	+ thalamus (the “sensory switchboard”)
* Limbic system
	+ hippocampus (memory)
	+ hypothalamus (drives (eating and sex)/”pleasure center”)
	+ cerebellum (balance and coordination)
	+ amygdala (fear and aggression)
* Cerebral Cortex
	+ Occipital Lobe (Vision)
	+ Parietal Lobe (Sensory Cortex)
	+ Temporal Lobe (Hearing)
	+ Frontal (Personality/Judgment/ Motor Cortex)
	+ Right hemisphere: Spatial and Emotions
	+ Left: Language and Logic

# Unit 3: Developmental Psychology

* Identical twins (from same fertilized egg)
* Fraternal twins (from two separate eggs)
* Attachment
* Cognitive Development (Piaget)
	+ Schema, assimilation, accommodation
	+ Object permanence
	+ Egocentrism
	+ Stranger anxiety
	+ Sensorimotor, preoperational, concrete, formal
* Authoritative, Authoritarian, Permissive
* Moral Development (Kohlberg)
	+ Pre-conventional, conventional, post-Conventional
* Alzheimer’s Disease (decreased acetylcholine)
* Parkinson’s Disease (decreased dopamine)

# Unit 4: Sensation and Perception

* Absolute Threshold
* Vision
	+ Parts of the eye: pupil, lens, retina (rods and cones), fovea
* Blind spot
* Hearing
	+ Parts of the ear: eardrum, bones of the middle ear, cochlea, hair cells
* Kinesthesis
* Selective attention
* Perceptual set
* Visual capture
* Binocular cues (retinal disparity, convergence)
* Monocular cues (relative size, relative height, texture gradient, interposition, linear perspective, relative clarity)

**Unit 5: States of Consciousness**

Sleep and Dreams:

* Alpha waves, delta waves, circadian rhythm, manifest/latent dream content
* Sleep Cycle
* REM Sleep (paradoxical)
* Sleep disorders (Night terrors, Narcolepsy, Insomnia, Sleep Apnea)
* Hypnosis
* Drugs (depressants, stimulants, and hallucinogens)

# Unit 6: Learning

* Classical conditioning (Pavlov)
	+ CS, UCS, CR, and UCR
* Acquisition, extinction, spontaneous recovery, discrimination, generalization
* Operant Conditioning(Skinner)
	+ Positive and Negative reinforcers
* Observational Learning(Bandura and “Bobo doll” experiment)

# Unit 7: Memory and Thinking

* Context effect
* Encoding, Storage, Retrieval
* Mnemonic devices
* Spacing Effect
* Serial position effect
* Proactive interference
* Retroactive interference
* Forgetting
* Algorithms
* Heuristics
	+ Representativeness
	+ Availability
* Functional Fixedness

**Unit 8: Intelligence, Motivation and Emotion**

* Achievement tests (AP exams)
* Aptitude tests (SATs, IQ tests…)
* Reliability
* Validity
* Factor Analysis
* “G” Factor (Spearman)
* Gardiner’s Multiple intelligences
* Emotional Intelligence
* Intrinsic and extrinsic motivation
* Instinct vs. Drive-reduction vs. Optimum Arousal
* Theories of Emotion
* Polygraph
* Stress
	+ Burnout
	+ Type A, B Personalities

# Unit 9: Personality

**Psychoanalytic Theory**

* Free Association
* Freud
* Dream interpretation
* Id, Ego, Superego
* Defense mechanisms (repression, reaction formation, projection, displacement, sublimation)
* Projective tests (TAT, Rorschach)
* Archetypes

# Unit 10: Abnormal Psychology

* *DSM-IV*
* Anxiety Disorders
	+ Generalized Anxiety Disorder
	+ Panic Disorder
	+ Phobias (agoraphobia)
	+ Obsessive-Compulsive Disorder
* Personality Disorders
	+ Anti-social
	+ Dependent
	+ Histrionic
	+ Narcissistic
* Somatoform Disorders
	+ Conversion Disorder
	+ Hypochondriasis
* Dissociative Disorders (Amnesia, Fugue, DID)
* Mood Disorders
	+ Major Depressive Disorder
	+ Dysthymic disorder
	+ Bipolar Disorder
* Schizophrenia
* Therapies/Treatment