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