Psychology Study Guide

History and Approaches (2-4%)

Psychology is derived from physiology (biology) and philosophy

EARLY APPROACHES

- *Structuralism* used INTROSPECTION (act of looking inward to examine mental experience) to determine the underlying STRUCTURES of the mind
- o Functionalism need to analyze the PURPOSE of behavior

APPROACHES KEY WORDS

- o *Evolutionary* Genes
- o *Humanistic* free will, choice, ideal, actualization
- o Biological Brain, NTs
- o Cognitive Perceptions, thoughts
- o *Behavioral* learned, reinforced
- o Psychoanalytic/dynamic unconscious, childhood
- o **Sociocultural** society
- o Biopsychosocial combo of above

• PEOPLE:

- o *Mary Calkins:* First Fem. Pres. of APA
- o Charles Darwin: Natural selection & evolution
- o Dorothea Dix: Reformed mental institutions in U.S.
- o **Stanley Hall:** 1st pres. of APA1st journal
- o William James: Father of American Psychology – functionalist
- o Wilhem Wundt: Father of Modern Psychology – structuralist
- o Margaret Floy Washburn-1st fem. PhD
- Christine Ladd Franklin 1st fem.

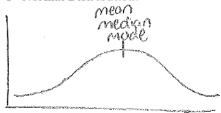
Research Methods (8-10%)

- **EXPERIMENT**: Adv: researcher controls variables to establish cause and effect Disadv: difficult to generalize
 - o *Independent Variable*: manipulated by the researcher
 - Experimental Group: received the treatment (part of the IV)
 - Control Group: placebo, baseline (part of the IV)
 - Placebo Effect: show behaviors associated with the exp. group when having received placebo
 - **Double-Blind:** Exp. where neither the participant or the experimenter are aware of which condition people are assigned to
 - o Dependent Variable: measured variable (is DEPENDENT on the independent variable)
- Operational Definition: clear, precise, typically quantifiable definition of your variables – allows replication

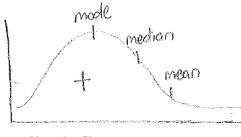
Confound: error/ tlaw in study

- Random Assignment: assigns participants to either control or experimental group at random minimizes bias, increase chance of equal representation
- **Random Sample:** method for choosing participants – minimizes bias
- Validity: accurate results
- **Reliability:** same results every time
- NATURALISTIC OBSERVATION: Adv: real world validity (observe people in their own setting) Disadv: No cause and effect
- **CORRELATION**: Adv: identify relationship between two variables Disadv: No cause and effect (CORRELATION DOES NOT EQUAL CAUSATION)
 - o **Positive Correlation** Variables vary in the same direction
 - o <u>Negative Correlation</u> variables vary in opposite directions
 - o <u>The stronger the # the stronger the</u> relationship REGARDLESS of the pos/neg sign
- CASE STUDY: Adv. Studies ONE person (usually) in great detail – lots of info Disady: No cause and effect
- **DESCRIPTIVE STATS:** shape of the data
 - Measures of Central Tendency:
 - Mean: Average (use in normal distribution)

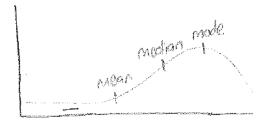
Normal Distribution:



Positive Skew:



Negative Skew:



- Median: Middle # (use in skewed distribution)
- Mode: occurs most often

INFERENTIAL STATISTICS: establishes significance (meaningfulness)

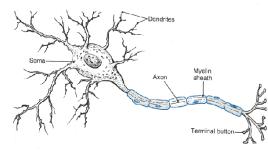
Significant results = NOT due to chance

• ETHICAL GUIDELINES (APA)

- Confidentiality
- Informed Consent
- Debriefing
- Deception must be warranted

Biological Basis (8-10%)

- **NEURON:** Basic cell of the NS
 - **Dendrites:** Receive incoming signal
 - **Soma:** Cell body (includes nucleus)
 - **Axon:** AP travels down this
 - *Myelin Sheath:* speeds up signal down axon
 - **Terminals:** release NTs send signal



onto next neuron

- o Synapse: gap b/w neurons
- Action Potential: movement of sodium and potassium ions across a membrane sends an electrical charge down the axon
 - o All or none law: stimulus must trigger the AP past its threshold, but does not increase the intensity of the response (flush the toilet)
 - **Refractory period**: neuron must rest and reset before it can send another AP (toilet resets)
 - <u>Sensory neurons receive signals</u>
 - Afferent neurons Accept signals
 - Motor neurons send signals
 - Efferent neurons signal Exits
 - **CENTRAL NS:** Brain and spinal cord
 - **PERIPHERAL NS:** Rest of the NS
 - **Somatic NS:** Voluntary movement
 - Autonomic NS: Involuntary (heart, lungs, etc)
 - *Sympathetic NS*: Arouses the body for fight/flight (generally activates)
 - *Parasympathetic NS*: established homeostasis after a sympathetic response (generally inhibits)

• NEUROTRANSMITTERS (NTS):

Chemicals released in synaptic gap, received by neurons

- o **GABA:** Major inhibitory NT
- o **GlutamatE:** Major Excitatory NT
- o Dopamine: Reward & movement
- o **Serotonin:** Moods and emotion
- o <u>Acetylcholine (ACh):</u> Memory
- o <u>Epinephrine & Norepinephrine:</u> sympathetic NS arousal
- o **Endorphins:** pain control, happiness
- o *Oxytocin:* love and bonding
- Agonist: drug that mimics a NT
- Antagonist: drug that blocks a NT
- <u>Reuptake</u>: Unused NTs are taken back up into the sending neuron. SSRIs (selective serotonin reuptake inhibitors) block reuptake treatment for depression

• AREAS OF THE BRAIN:

- Hindbrain: oldest part of the brain
- <u>Cerebellum movement</u> (what does it take to ring a bell)
- Medulla vital organs (HR, BP)
- o Pons − sleep/arousal (Ponzzzzzz)
- Midbrain
- <u>Reticular formation:</u> attention (if you can't pay attention, You R F'd)
- Forebrain: higher thought processes
- o Limbic System
 - <u>Amygdala:</u> emotions, fear (Amy, da! You're so emotional!)
 - <u>Hippocampus:</u> memory (if you saw a hippo on campus you'd remember it!)
- o Thalamus: relay center
- <u>O Hypothalamus</u>: Reward/pleasure center, eating behaviors
- <u>O Broca's Area:</u> Inability to produce speech (Broca – Broken speech)
- <u>o Wernicke's Area:</u> Inability to comprehend speech (Wernicke's what?)
- <u>O Cerebral Cortex:</u> outer portion of the brain – higher order thought processes
 - Occipital Lobe: located in the back of the head - vision
 - Frontal Lobe: decision making, planning, judgment, movement, personality
 - Parietal Lobe: located on the top of the head - sensations
 - Temporal Lobe: located on the sides of the head (temples) – hearing and face recognition
 - Somatosensory Cortex: map of our sensory receptors –in parietal lobe
 - Motor Cortex: map of our motor receptors – located in frontal lobe
- Corpus Callosum: bundle of nerves that connects the 2 hemispheres – sometimes severed in patients with severe seizures – leads to "split-brain patients"

- <u>Lateralization</u>: the brain has some specialized features – language is processed in the L Hemisphere
- Split-brain experiments: done by Sperry & Gazzanaga.



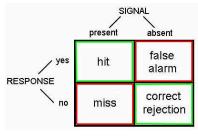
Images shown to the right hemisphere will be processed in the left (& vice versa), patient can verbally identify what

they saw

- BRAIN PLASTICITY: Brain can "heal" itself
- NATURE VS. NURTURE: ANSWER IS BOTH
 - o Twin Studies:
 - Identical twins Monozygotic (MZ)
 - Fraternal twins Dizygotics (DZ)
 - <u>o Genetics:</u> MZ twins will have a higher percentage of also developing a disease
 - <u>o Environment:</u> MZ twins raised in different environments show differences
- ENDOCRINE SYSTEM: sends
 hormones throughout the body
 OPITUITARY Gland: Controlled by
 hypothalamus. release growth hormones
 - <u>o Adrenal Glands:</u> related to sympathetic NS: releases adrenaline

Sensation & Perception (6-8%)

- <u>ABSOLUTE THRESHOLD:</u> detection of signal 50% of time (is it there)
- DIFFERENCE THRESHOLD (also called a just noticeable difference (JND) and follows WEBER'S LAW: two stimuli must differ by a constant minimum proportion. (Can you tell a change?)



- <u>SIGNAL DETECTION THEORY</u>
- <u>Sensory Adaptation:</u> diminished sensitivity as a result of constant stimulation (can you feel your underwear?)
- <u>Perceptual Set:</u> tendency to see something as part of a group – speeds up signal processing
- *Inattentional Blindness:* failure to notice something b/c you're so focused on another task (gorilla video)

- <u>Cocktail party effect</u>: notice your name across the room when its spoken, when you weren't previously paying attention
- VISUAL SYSTEM:
 - o Pathway of vision: light → cornea →pupil/iris → lens → retina → rods/cones → bipolar cells → ganglion cells → optic nerve → optic chiasm → occipital lobe
 - o Cornea protects the eye
 - Pupil/iris controls amount of light entering eye
 - Lens focuses light on retina
 - o **Fovea**–area of best vision(cones here)
 - o **Rods** black/white, dim light
 - Cones color, bright light
 - Bipolar cells connect rods/cones and ganglion cells
 - o Ganglion cells opponent-processing occurs here
 - **Blind spot** occurs where the optic nerve leaves the eye
 - Feature detectors specialized cells that see motion, shapes, lines, etc. (experiments by Hubel & Weisel)

• THEORIES OF COLOR VISION:

- <u>O</u> Trichromatic three cones for receiving color (blue, red, green)
- Explains color blindness they are missing a cone type
- Opponent Process complementary colors are processed in ganglion cells – explains why we see an after image
- <u>Visual Capture:</u> Visual system
 overwhelms all others (nauseous in an IMAX theater vision trumps vestibular)
- Constancies: recognize that objects do not physically change despite changes in sensory input (size, shape, brightness)
- *Phi Phenomenon:* adjacent lights blink on/off in succession looks like movement (traffic signs with arrows)
- <u>Stroboscopic movement:</u> motion produced by a rapid succession of slightly varying images (animations)
- MONOCULAR CUES (how we form a 3D image from a 2D image)
 - <u>o</u> <u>Interposition:</u> overlapping images appear closer
 - <u>o</u> Relative Size: 2 objects that are usually similar in size, the smaller one is further away
 - <u>o</u> Relative Clarity: hazy objects appear further away
 - <u>o Texture Gradient:</u> coarser objects are closer
 - <u>O Relative Height:</u> things higher in our field of vision look further away
 - <u>O Linear Perspective:</u> parallel lines converge with distance (think railroad tracks)

- BINOCULAR CUES: (how both eyes make up a 3D image)
 - Retinal Disparity: Image is cast slightly different on each retinal, location of image helps us determine depth Convergence: Eyes strain more (looking inward) as objects draw nearer
- TOP-DOWN PROCESSING: Whole → smaller parts
- BOTTOM-UP PROCESSING: Smaller Parts → Whole

• AUDITORY SYSTEM:

- OPathway of sound: sound → pinna → auditory canal →ear drum (tympanic membrane) → hammer, anvil, stirrup (HAS) → oval window → cochlea → auditory nerve → temporal lobes
- Outer Ear: pinna (ear), auditory canal
- <u>Middle Ear:</u> ear drum , HAS (bones vibrate to send signal)
- <u>o_Inner Ear:_</u>cochlea like COCHELLA (sounds 1st processed here)
- THEORIES OF HEARING: both occur in the cochlea
 - Place theory location where hair cells bends determines sound (high pitches)
 - <u>o</u> Frequency theory rate at which action potentials are sent determines sound (low pitches)

• OTHER SENSES:

- Touch: Mechanoreceptors → spinal cord
 → thalamus → somatosensory cortex
- Pain: Gate-control theory: we have a "gate" to control how much pain ix experienced
- o Kinesthetic: Sense of body position
- Vestibular: Sense of balance (semicircular canals in the inner ear effect this)
- Taste (gustation): 5 taste receptors:bitter, salty, sweet, sour, umami (savory)
- Smell (olfaction): Only sense that does NOT route through the thalamus 1st.
 Goes to temporal lobe and amygdala
- **GESTALT PSYCHOLOGY:** Whole is greater than the sum of its parts

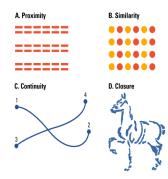
Gestalt Principles:

• <u>Figure/ground</u>: organize information into figures objects (figures) that stand apart from surrounds (back ground)



- <u>Closure:</u> tendency to mentally fill in gaps
- <u>Proximity</u>: tendency to group things together that appear near each other
- <u>Similarity</u>: tendency to group things together based off of looks

• <u>Continuity:</u> tendency to mentally form a continuous line



States of Consciousness (2-4%)

• STATES of CONSCIOUSNESS:

- Higher-Level: controlled processes totally aware
- Lower-Level: automatic processing (daydreaming, phone numbers)
- Altered States: produced through drugs, fatigue, hypnosis
- o Subconscious: Sleeping and dreaming
- o No awareness: Knocked out
- <u>METACOGNITION:</u> Thinking about thinking

• SLEEP:

Beta Waves: awake

Alpha Waves: high amp., drowsy

Stage 1: light sleep

Stage 2: bursts of sleep spindles

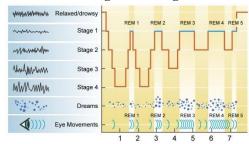
Stage 3 (delta waves: Deep sleep

Stage 4: extremely deep sleep

Rapid Eye Movement (REM):

dreaming

Entire cycle takes 90 minutes, REM occurs inb/w each cycle. REM lasts longer throughout the night



• CIRCADIAN RHYTHM: 24 hour

biological clock

- Body temp and awareness change due to this
- Controlled by the Suprachiasmatic nucleus (SCN) in the brain
- o Explains jet lag

• SLEEP DISORDERS

- o <u>Insomnia:</u> Inability to fall asleep (due to stress/anxiety)
- <u>Sleep walking:</u> (due to fatigue, drugs, alcohol)
- Night terrors: extreme nightmares NOT in REM sleep – typical in children
- Narcolepsy: fall asleep out of nowhere (due to deficiency in orexin)
- o **Sleep Apnea:** stop breathing suddenly while asleep (due to obesity usually)

• DREAM THEORIES:

o Freud's Unconscious Wish

<u>Fulfillment:</u> Dreaming is gratification of unconscious desires and needs

- <u>Latent Content:</u> hidden meaning of dreams
- <u>Manifest Content:</u> obvious storyline of dream
- Activation Synthesis: Brain produces random bursts of energy stimulating lodged memories. Dreams start random then develop meaning

• HYPNOSIS

<u>o It Can:</u> Reduce pain, help you relax
<u>o It CANNOT:</u> give you superhuman
strength, make you regress, make you
do things against your will

• PSYCHOACTIVE DRUGS:

- o Triggers dopamine release in the brain
- <u>o Depressants:</u> Alcohol, barbiturates, tranquilizers, opiates (narcotics)
 - Decrease sympathetic NS activation, highly addictive
- <u>o Stimulants:</u> Amphetamines, Cocaine, MDMA (ecstasy), Caffeine, Nicotine
 - Increase sympathetic NS activation, highly addictive
- o Hallucinogens: LSD, Marijuana
 - Causes hallucinations, not very addictive
- <u>o</u> *Tolerance:* Needing more of a drug to achieve the same effects
- <u>O</u> Dependence: Become addicted to the drug – must have it to avoid withdrawal symptoms
- <u>o</u> Withdrawal: Psychological and physiological symptoms associated with sudden stoppage. Unpleasant can kill you

Learning (7-9 %)

• CLASSICAL CONDITIONING: <u>PAVLOV!</u>

- Our Unconditioned Stimulus (US): brings about response w/o needing to be learned (food)
- O Unconditioned Response (UR): response that naturally occurs w/o training (salivate)

- o Neutral Response (NS): stimulus that normally doesn't evoke a response
- o Conditioned Stimulus (CS): once neutral stimulus that now brings about a response (bell)
- o Conditioned Response (CR): response that, after conditioning, follows a CS (salivate)
- o Contiguity: Timing of the pairing, NS/CS must be presented immediately BEFORE the US
- o Acquisition: process of learning the response pairing
- o Extinction: previously conditioned response dies out over time
- o Spontaneous Recovery: After a period of time the CR comes back out of
- o Generalization: CR to like stimuli (similar sounding bell)
- o Discrimination: CR to ONLY the CS
- CONTINGENCY MODEL: Rescorla & **Wagner** – classical conditioning involves
 - cognitive processes
- CONDITIONED TASTE AVERSION (ONE-TRIAL LEARNING): John **Garcia** – Innate predispositions can allow

classical conditioning to occur in one trial (food poisoning)

• COUNTERCONDITIONING: Little Albert and John Watson (father of **behaviorism**) – conditioned a fear in a baby (only to countercondition – remove it- later on)

• OPERANT CONDITIONING: SKINNER!

o LAW OF EFFECT (Thorndike):

Behaviors followed by pos. outcomes are strengthened, neg. outcomes weaken a behavior (cat in the puzzle box)

• PRINCIPLES OF OPERANT COND:

- Pos. Reinforcement: Add something *nice* to *increase* a behavior (gold star for turning in HW)
- o Neg. Reinforcement: Take away something bad/annoying to increase a behavior (put on seatbelt to take away annoying car signal)
- o **Pos. Punishment:** Add something bad to decrease a behavior (spanking)
- o **Neg. Punishment:** *Take away* something good to decrease a behavior (take away car keys)
- o Primary Reinforcers: innately satisfying (food and water)
- o Secondary Reinforcers: everything else (stickers, high-fives)
 - Token Reinforcer: type of secondarycan be exchanged for other stuff (game tokens or money)

- o **Generalization:** respond to similar stimulus for reward
- o **Discrimination:** stimulus signals when behavior will or will not be reinforced (light on means response are accepted)
- Extinction / Spontaneous Recovery: same as classical conditioning
- o **Premack Principle:** high probability activities reinforce low probability activities (get extra min at recess if you everyone turns in their HW)
- o Overjustification Effect: reinforcing behaviors that are intrinsically motivating causes you to stop doing them (give a child 5\$ for reading when they already like to read – they stop
- o **Shaping:** use successive approximations to train behavior (reward desired behaviors to teach a response – rat basketball)
- o **Chaining:** tie together several behaviors
- o Continuous Reinforcement schedule: Receive reward for every response
- <u>o</u> Fixed Ratio schedule: Reward every X number of response (every 10 envelopes stuffed get \$\$)
- o **Fixed Interval schedule:** Reward every X amount of time passed (every 2 weeks get a paycheck)
- o Variable Ratio schedule: Rewarded after a random number of responses (slot machine
- o Variable Interval schedule: Rewarded after a random amount of time has passed (fishing)
- o Variable schedules are most resistant to extinction (how long will keep playing a slot machine before you think its broken?)

• SOCIAL (OBSERVATIONAL) LEARNING: BANDURA!

- Modeling Behaviors: Children model (imitate) behaviors. Study used BoBo dolls to demonstrate the following
- o Prosocial helping behaviors
- o Antisocial mean behaviors

• MISC LEARNING TYPES

- o Latent learning (Tolman!) learning is hidden until useful (rats in maze get reinforced half way through, performance improved
 - Cognitive maps mental representation of an area, allows navigation if blocked
- o_Insight learning (Kohler!) some learning is through simple intuition (chimps with crates to get bananas)

o Learned Helplessness (Seligman!) – no matter what you do you never get a positive outcome so you just give up (word scrambles)

Cognition (8 - 10%)

ENCODING: Getting info into memory

- Automatic encoding requires no effort (what did you have for breakfast?)
- Effortful encoding requires attention (school work)
- Shallow, intermediate, deep processing: the more emphasis on MEANING the deeper the processing, and the better remembered
- Imagery attaching images to information makes it easier to remember (shoe w/ spaghetti laces)
- Self-referent encoding we better remember what we're interested in (you'd remember someone's phone number who you found extremely attractive)
- **Dual encoding** combining different types of encoding aids in memory
- Chunking break info into smaller units to aid in memory (like a phone #)
 - Mnemonics shortcuts to help us remember info easier
 - o Acronyms using letter to remember something (PEMDAS)
 - o Method of loci using locations to remember a list of items in order
 - Context dependent memory where you learn the info you best remember the info (scuba divers testing)
 - State dependent memory the physical state you were in when learning is the way you should be when testing (study high, test high)

STORAGE: Retaining info over time

- Information Processing Model -Sensory memory, short term memory, long term memory model
- Sensory Memory stores all incoming stimuli that you receive (first you have to a pay attention)
 - o Iconic Memory visual memory, lasts 0.3 seconds
 - o Echoic Memory auditory memory, lasts 2-3 seconds
- **Short Term Memory** info passes from sensory memory to STM – lasts 30 secs, and can remember 7 ± 2 items
 - o Rehearsal (repeating the info) resets the clock
- Working Memory Model splits STM into 2 – visual spatial memory (from iconic mem) and phonological loop (from echoic mem). A "central executive" puts it together before passing it to LTM

- Long term memory lasts a life time
 - Explicit (Declarative): Conscious recollection
 - Episodic: eventsSemantic: facts
 - o Implicit (Nondeclarative): unconscious recollection
 - Classical conditioning
 - **Priming:** info that is seen earlier "primes" you to remember something later on (octopus, assassin, climate, bogeyman)
 - Procedural: skills

• Memory organization

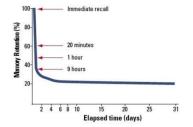
- <u>O</u> Hierarchies: memory is stored according to a hierarchy
- <u>Semantic networks:</u> linked memories are stored together
- Schemas: preexisting mental concept of how something should look (like a restaurant)

• Memory storage

- Acetylcholine neurons in the hippocampus for most memories
- Cerebellum for procedural memories
- Long-term potentiation: neural basis of memory – connections are strengthened over time with repeated stimulation (more firing of neurons)

RETRIEVAL: Taking info out of storage

- Serial Position Effect: tendency to remember the beginning and the end of the list best
- Recall: remember what you've been told w/o cues (essays)
- Recognition: remember what you've been told w/ cues (MC)
- Flashbulb memories: particularly vivid memories for highly important events (9/11 attacks)
- <u>Repressed memories</u>: unconsciously buried memories – are unreliable
- Encoding failure: forget info b/c you never encoded it (paid attention to it) in the first place (which is the real penny)
- Encoding specificity principle: the more closely retrieval cues match the way we learned the info, the better we remember the info (like state dependent memory)
- Forgetting curve: recall decreases rapidly at first, then reaches a plateau after which little more is forgotten (EBBINGHAUS)



- Proactive interference: old info blocks new
- <u>Retroactive interference:</u> new info blocks old
- Misinformation effect: distortion of memory by suggestion or misinformation (Loftus – lost in the mall, Disney land)
- <u>● Anterograde amnesia: amnesia moves</u> forward (forget new info – 50 first dates)
- <u>Retrograde amnesia:</u> amnesia moves backwards (forget old info)
- ALZHEIMER'S DISEASE: caused by destruction of acetylcholine in hippocampus

LANGUAGE

- **Phonemes:** smallest unit of sound (ch sound in chat)
- **Morpheme:** smallest unit that caries meaning (syllable)
- **Grammar:** rules in a language that enable us to communicate
- **Semantics:** set of rules by which we derive meaning (adding –ed makes something past tense)
- Syntax: rules for combining words into sentences (white house vs casa blanca)
- **Babbling stage:** infants babble 1st stage of speech
- One-word stage: duh
- Two-word stage: duh duh
- Theories of language development:
 - <u>o</u> Imitation: Kids repeat what they hear but they don't do it perfectly
 - Overregularization: grammar mistake where children over use certain morphemes (I go-ed to the park)
 - Operant conditioning: reinforced for language use
 - <u>o</u> Inborn universal grammar: theory comes from NOAM CHOMSKY says that language is innate and we are predisposed to learn it
 - <u>Critical period</u>: period of time where something must be learned or else it cannot ever happen (language must be learned young – Genie the Wild Child)
 - <u>C. Linguistic determinism:</u> language influences the way we think (Hopi people do not have words for the past, thus cannot easily think about the past) developed by WHORF

THINKING

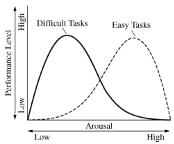
- Concepts: mental categories used to group objects, events, characteristics
- <u>Prototypes:</u> all instances of a concept are compared to an ideal example (what you first think of)
- Algorithms: step by step strategies that guarantee a solution (formula)

- <u>Heuristics:</u> short cut strategy (rule of thumb)
 - Representative Heuristic: make inferences based on your experience (like a stereotype) assume someone must be a librarian b/c they're quiet
 - <u>o</u> Availability heuristic: relying on availability to judge the frequency of something (over estimating death due to plane crashes due to recent events)
- <u>Functional Fixedness:</u> keep using one strategy – cannot think outside of the box
- Belief bias: tendency of one's preexisting beliefs to distort logical reasoning by making invalid conclusions
- Belief perseverance: tendency to cling to our beliefs in the face on contrary evidence
- Inductive reasoning: data driven decisions, general → specific
- <u>• Deductive reasoning:</u> driven by logic, specific → general
- <u>Oivergent thinking:</u> ability to think about many different things at once

Motivation & Emotion (6-8%)

THEORIES OF MOTIVATION

- INSTINCT: complex behaviors have fixed patterns and are not learned (explains animal motivation)
- DRIVE REDUCTION: physiological need creates aroused tension (drive) that motivates you to satisfy the need (driven by homeostasis: equilibrium)
 - <u>o Primary drive:</u> unlearned drive based on survival (hunger, thirst)
 - <u>Secondary drive:</u> learned drive (wealth or success)
- OPTIMUM AROUSAL: humans aim to seek optimum levels of arousal –easier tasks requires more arousal, harder tasks need less



• HIERARCHY OF NEEDS: theory derived by MASLOW – needs lower in the pyramid

- have priority over needs higher in the pyramid
- Intrinsic motivation: inner motivation you do it b/c you like it
- Extrinsic motivation: motivation to obtain a reward (trophy)

HUNGER

• Signals of hunger:

- Stomach contractions tell us we're hungry
- o Glucose (sugar) level is maintained by the pancreas (endocrine system).
- o Insulin decreases glucose. Too little glucose makes us hungry.
- o Orexin is released by the hypothalamus – telling us to eat.
- Other chemicals include ghrelin, obestatin, and PPY
- o Lateral hypothalamus: when stimulated makes you hungry, when lesioned you will never eat again. (I'm LATE for lunch. I'm hungry. The LATEral hypothalamus makes you hungry.)
- o Ventromedial hypothalamus: when stimulated you feel full, when destroyed you eat eat eat (fat woman and cake)
- **<u>o Leptin:</u>** leptin signals the brain to reduce appetite

• Obesity:

- o Increased risk of heart attack. hypertension, atherosclerosis, diabetes
- o Can be genetic − adopted children resemble their biological parents
- o Set point: there is a control system that dictates how much fat you should carry every person is different

• Eating Disorders:

- Anorexia: weight loss of at least 15% ideal weight, distorted body image
 - Causes: overly critical parents, perfectionist tendencies, societal ideals
- o Bulimia: usually normal body weight, go through a binge-purge eating pattern (eat massive amounts, then throw up)
 - **■** Causes: same as anorexia

SEXUALITY

• Biology of sex:

- o Hypothalamus: stimulation increases sexual behavior, destruction leads to sexual inhibition
- o Pituitary gland: monitors, initiates, and restricts hormones

- Males testosterone
- Females estrogen
- o Sexual Response Pattern: Excitement phase, plateau, orgasm, refractory period (resolution phase) (cannot "fire" again until you reset, guys only)
- o_Alfred Kinsey: 1st researcher to conduct studies in sex, suggested that people were very promiscuous. Studies lacked a representative sample, created scale of homosexuality
- o Homosexuality: biological roots: differences in the brain, identical twins more likely to both be gay, later sons more likely to be (hormones from mom)

THORIES OF EMOTIONS

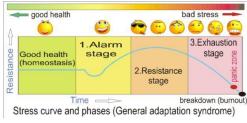
- JAMES-LANGE: stimulus \rightarrow physiological arousal \rightarrow emotion
- **CANNON-BARD:** stimulus → physiological arousal & emotion simultaneously
- SCHACTER TWO FACTOR: adds in cognitive labeling (bridge experiment) stimulus \rightarrow arousal \rightarrow interpret external $cues \rightarrow label emotion$
- Some stimuli are routed directly to the amygdala bypassing the frontal cortex (gut reaction to a cockroach)
- Behavioral factors: there are SIX universal emotions (happiness, anger, sadness, surprise, disgust, feat) seen across ALL cultures
- Non-verbal cues: gestures, duchenne smile (you can tell a real smile from a fake one)
- Facial feedback hypothesis: being forced to smile will make you happier (facial expressions influence emotion)

STRESS AND HEALTH

• GENERAL ADAPTATION SYNDROME

(GAS): three phases of a stress response (**SELYE** came up w/ this)

- o Alarm: body/you freak out in response to
- o Resistance: body/you are dealing with



o Exhaustion: body/you cannot take any more, give up

- Type A Personality: rigid, stressful person, perfectionist. At risk for heart disease
- Type B Personality: laid back, nonstressed. INDUSTRIAL/ORGANIZATIONAL <u>PSYCH</u>

• Industrial / Organizational Psych:

psychological of the workplace – focuses on employee recruitment, placement, training, satisfaction, productivity

- Ergonomics / Human Factors: intersection of engineering and psych – focuses on safety and efficiency of human-machine interactions
- Hawthorne effect: productivity increases when workers are made to feel important
- Theory X management: manager controls employees, enforces rules. Good for lower level jobs
- Theory Y management: manger gives employees responsibility, looks for input. Good for high level jobs

• Employee Commitment:

- o Affective: emotional attachment (best
- o Continuance: stay due to costs of leaving
- o Normative: stay due to obligation (they paid for your school)

• Meaning of Work:

- <u>o</u> Job − no training, just do it for \$\$. No happiness
- o Career work for advancement. Some happiness
- o Calling work because you love it. Lotsa happiness

Development (7-9%)

Prenatal Development:

- **Zygote:** 0 14 days, cells are dividing
- o **Embryo:** until about 9 weeks, vital organs being formed
- o **Fetus:** 9 wks to birth, overall development
- o **Teratogens:** external agents that can cause abnormal prenatal development (alcohol, drugs, etc)
- Fetal alcohol syndrome (FAS): large amount of alcohol leads to FAS, causes deformities, mental retardation, death

• Physical Development:

- o Maturation: natural course of development, occurs no matter what (walking)
- o **Reflexes:** innate responses we're born with
 - Rooting, sucking, swallowing, grasping, stepping

- Habituation: after continual exposure you pay less attention – used to test babies
- Eyes have the most limited development, takes till 1 year
 - Visual cliff: babies have to learn depth perception, so they will cross a "cliff"
- o Other senses are fairly developed
- o Brain development continues for a few years
- JEAN PIAGET'S COGNITIVE DEV.
- Schemas concepts or frameworks that organize info
- **Assimilation:** incorporate new info into existing schema (aSSimlation same stuff)
- Accommodation: adjust existing schemas to incorporate new information (ACcommodation - All Change)
- <u>Sensorimotor Stage:</u> Birth to 2 years: focused on exploring the world around them
 - Lack Object Permanence: Objects when removed from field of view are thought to disappear (peek-a-boo)
 - o <u>Dev. Sense of Self:</u> by 2 yrs can recognize themselves in the mirror
- <u>Pre-operational Stage:</u> 2 7 years: use pretend play, developing language, using intuitive reasoning
 - Lack Conservation: recognize that substances remain the same despite changes in shape, length, or position (girls with juice in glasses)
 - Lack Reversibility: cannot do reverse operations (count out both 4+2 and 2+4)
 - Are egocentric: inability to distinguish one's own perspective from another's – think everyone sees what they see
- <u>Concrete Operational Stage:</u> 7-11 yrs: use operational thinking, classification, and can think logical in concrete context
- <u>Formal Operational Stage:</u> 11-15 yrs: use abstract and idealist thoughts, hypothetical-deductive reasoning
- <u>Problems with Piaget's theory</u>: stages to discrete, dev. differs b/w kids
- VYGOTSKY'S THEORY: cognitive development is a social process too, need to interact w/ others
 - o **Zone of Proximal Development:** gap b/w what a child can do on their own and w/ support. Need scaffolding (teachers)
 - SOCIOEMOTIONAL DEVELOPMENT
- <u>Temperament:</u> patterns of emotional reactions and babies (precursor to personality)
- <u>Imprinting:</u> baby geese believe the first thing they see after hatching is their mom happens during a **critical period** (from **LORENZ**)

- HARRY HARLOW: discovered that contact comfort is more important than feeding (monkeys fed on wire or cloth mothers). Monkeys raised in isolation couldn't socialize
- MARY AINSWORTH: developed the strange situation paradigm (children left alone in a room w/ a stranger, then reunited w/ mom determines your attachment style
 - Secure attachment (60% of infants): upset when mom leaves, easily calmed on return. Tend to be more stable adults
 - Avoidant attachment (20% infants): actively avoids mom, doesn't care when she leaves
 - Ambivalent attachment(10% infants): actively avoids mom, freaks out when she leaves
 - Disorganized attachment (5%):
 confused, fearful, dazed result of abuse
- **BAUMRIND:** parenting styles
 - Authoritarian: rules & obedience, "my way or the highway" – kids lack initiative in college
 - Permissive: kids do whatever no rules
 kids lack initiative in college
 - Authoritative: give and take w/ kids kids become socially competent and reliable

• KOHLBERG'S MORAL DEV

- <u>Preconventional morality:</u> Children: they follow rules to avoid punishment
- Conventional morality: adolescents: follow rules b/c rules exist to keep order
- Postconventional morality: adults: they do what they believe is right (even if it goes against society)
- Carol Gilligan: said moral reasoning and moral behaviors are two different things (what you say isn't always what you do)
- ERIKSON'S SOCIOEMOTINAL DEV. : 8 stages, each stage represents a crisis that must be resolved, results in competence or weakness
 - <u>Trust vs Mistrust</u> (birth 18 months): if needs are dependably met infants dev basic trust
 - <u>Autonomy vs shame&doubt</u> (1 -3 yrs): toddlers learn to exercise their will and think for themselves
 - o <u>Initiative vs guilt</u> (3-6 yrs): learn to initiate tasks and carry out plans
 - Industry vs inferiority (6 yrs to puberty): learn the pleasure of applying themselves to tasks
 - o <u>Identity vs role confusion</u>: (adolescence thru 20s): refine a sense of self by testing roles and forming an identity
 - Intimacy vs isolation: (20s—40s): form close relationships and gain capacity for love

- Generativity vs stagnation: (40s-60s): discover sense of contributing to the world, thru family & work
- Integrity vs despair: (60s and up): reflect on your life, feel satisfaction or failure
- <u>PUBERTY!</u> (rapid skeletal and sexual maturation)
 - Primary sex characteristics: necessary structures for reproduction (ovaries, testicles, vagina, penis)
 - Secondary sex characteristics: nonreproductive characteristics that dev during puberty (breasts, hips, deepening of voice, body hair)
 - Frontal lobe continuous dev (not fully developed till 25)
- <u>GENDER DEVELOPMENT:</u> sex = chromosomes, gender = what you identify yourself as
 - Gender roles: expected behaviors (norms) for men/women
- Social learning theory: we learn gender roles and identity from those around us

• AGING:

- Cellular clock theory: cells have a maximum # of divisions before they can't divide anymore
- o **Free-radical theory:** unstable oxygen molecules w/in cells damage DNA
- Over time skills decrease (reaction time, memory)
- <u>CROSS-SECTIONAL STUDY</u>: studies ppl of different ages at the same point in time
 - o **Adv:** inexpensive & quick
 - o **Disadv:** can be differences due to generational gap
- **LONGITUDINAL STUDY:** studies same ppl over time
 - Adv: eliminates groups differences, lots of detail
 - Disadv: expensive, time consuming, high drop out rates
- Stages of Grief (crap btw)
 - o Denial: "this can't be happening"
 - o Anger: "why me?"
 - o <u>Bargaining:</u> "just let me live to see my kids graduate"
 - o Depression: "why bother"
 - o Acceptance: "its going to okay"
- <u>Problem-focused coping:</u> solving or doing something to alter the course of stress (planning, acceptance)
- Emotion-focused coping: reducing the emotional distress (denial, disengagement)

Personality (5-7%)

PSYCHODYNAMIC EXPLANATION

SIGMUND FREUD said personality was largely unconscious. Came up w/ the following:

- Conscious: immediate awareness of current environment
- **Preconscious:** available to awareness (phone #s)
- Unconscious: unavailable to awareness
- id: our hidden true animalistic wants and desires – operates on the pleasure principle, all about rewards and avoiding pain (devil *on your shoulder – entirely unconscious)*
- **superego:** our moral conscious (angel on your shoulder, all 3 consciousness)
- ego: reality principle, has to deal w/ society, stuck mediating b/w the id and superego (its *you! – conscious and preconscious)*

When ego cannot mediate b/w the id and superego, we use defense mechanisms

- Repression: push memories back into the unconscious mind (sexual abuse is too traumatic to deal w/ so you repress it)
- **Projection:** attribute personal shortcomings & faults on to others (man who wants to have an affair accuses his wife of having
- **Denial:** refuse to acknowledge reality (refuse to believe you have cancer) **Displacement**; shift feelings from an unacceptable object to a more acceptable one (can't tell at teacher, go home and yell at the dog)
- **Reaction formation:** transform unacceptable motive into his opposite (woman who fears sexual urges becomes a religious zealot)
- **Regression:** transform into an earlier development period in the face of stress (during exam week you start to suck your thumb)
- Rationalization: replace a less acceptable reasoning with a more acceptable one (don't get into your college - justify it was a sucky college anyway)
- **Sublimination:** replace unacceptable impulse w/ a socially acceptable one (man w/ strong sexual urges paints nudes. Dexter) FREUD'S PSYCHOSEXUAL STAGES

- Oral stage (0-18 months): pleasure focuses on the mouth (id)
- Anal stage (18 36 months): pleasure involves eliminative functions (ego forms)
- Phallic stage (3 6 yrs): pleasure focuses on genitals (superego forms)
 - Oedipal complex: young boys learn to identify w/ their father out of fear of retribution (castration anxiety)

- o Electra complex: young girls learn to identify w/ their mother b/c they cannot with their father (penis envy)
- Latency stage (6 yrs to puberty): psychic time out – personality is set
- Genital State (adulthood): sexual reawakening – oedipal and electra "feelings" are repressed, turn sexual wants onto an appropriate person
- FIXATION: can become "stuck" in an earlier stage – influences personality (oral stage smokes/drinks, anal is "anal retentive", phallic is promiscuous) What's wrong w/ Freud theory? unverifiable, descriptive not predictive

personality, sparked psychoanalysis How do we test this approach?

What's good about it? – 1st theory about

- Psychoanalysis: analyze a person's unconscious motives thru the use of:
 - o Free Association: say aloud everythying that comes to mind w/o hesitation
 - o Transference: looks for feelings to transferred to psychoanalyst
 - **Dream interpretation:** analyze the manifest (seen message) and latent (hidden messages) content
 - Projective Tests: ambiguous stimuli shown to look at your unconscious motives (THESE SUCK B/C THEY ARE VERY SUBJECTIVE)
 - <u>Thematic apperception test (TAT)</u>: tell a story about a picture (when someone has a tattoo (tatt) you ask what it means
 - Rorschach inkblot: show an inkblot

NEO-FREUDIANS

- CARL JUNG: believed in the *collective* unconconcious (shared inherited reservoir of memory – explains common myths across civilizations & time)
- KAREN HORNEY: said personality develops in context of social relationships, NOT sexual urges (security not sex is motivation, men get womb envy)

TRAIT PERSPECTIVE

- Traits are enduring personality characteristics, people can be described by these – have strong or weak tendencies. They are stable, genetic, and predict other attributes.
- Use factor analysis to find these: statistical procedure used to identify similar components

• TRAIT THEORIES:

- Big Five: (by Costa & McCrae) (acronym OCEAN) You vary on each of these
 - o Openness: imaginative, independent, like variety

- o Conscientiousness: organized, careful, disciplined
- o Extraversion: sociable, fun-loving, affectionate (opoosite it introversion: shy, timid, reserved)
- o Agreeableness: soft hearted, trusting, helpful
- o Neuroticism (emotional stability): calm,

What's wrong with trait theory? - ignores the role of the situation in behavior What's good about it? - identifying traits gives us perspectives about careers, relationships, health

How do we test this approach?

- MMPI helpful for mental health and job placement
- Myer's Briggs gave you 4 letter combo What's wrong w/ these tests?
- They're long, social desirability can be an influence, and they're too broad

HUMANISTIC PERSPECTIVE

- Emphasized personal growth and free will. You don't like yourself? So change!
- CARL ROGERS: talked about our self-concept (idea of who we are). Your self-concept is the center of your personality
 - o Actual (social) self: what others see
 - o **Ideal (true) self:** who you WANT to be
 - o A *positive* self-concept makes us perceive the world positively (optimist)
- o A negative self-concept makes us feel dissatisfied and unhappy

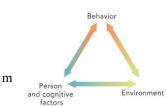
What wrong with humanistic theory? too optimistic about human nature, abstract concepts are difficult to test

What's good about it? - emphasizes conscious experiences and change

- Individualistic Cultures: give priorities to own goals over group goals. Define your identify in terms of you (American society)
- Collectivistic Cultures: give priority to the goals of the group, your identity is part of that group (China)

SOCIAL-COGNITIVE PERSPECTIVE

- Behavior is a complex interaction of inner process and environmental influence – which influences personality
- Emphasizes conscious awareness, beliefs, expectations, and goals
- BANDURA! Talked about RECIPROCAL **DETERMINISM:** interaction of behavior,



cognitions, and environment make up you.

outgoing (behavior), I choose to

- teach b/c it lets me be outgoing (*environment*), and I have thought this through which is why I teach despite making less money (*cognitive*)}
- <u>Self-efficacy:</u> belief that one can succeed, so you ensure you do
- Internal locus of control: you control your own fate
- External locus of control: chance / outside forces control your fate

<u>What's wrong with social-cognitive? – Too</u> specific, cannot generalize

<u>What's good about it?</u> Highlights situations, and cognitive explanations of personality

<u>How do we test it?</u> – Observations & interviews (time consuming)

Testing & Individual Differences (5-7%)

Individual Theories about Intelligence

- GALTON: 1st to suggest intelligence was inherited. Intelligence based on muscle strength, size of head, reaction time, etc.
- CATTELL: 2 clusters of mental abilities
 - <u>o</u> Crystalized intelligence: reasoning and verbal skills - what you learn in school – the cold hard (like crystals!) facts
 - <u>o</u> Fluid intelligence: spatial abilities, rote memory, things that come natural to you – can't learn in school. Also decrease over time
- SPEARMAN'S G FACTOR: said a general intelligence (g) underlies all mental abilities (typical IQ of today)
- GARDNER: multiple intelligences (8): linguistic, logical-mathematical, musical, spatial, bodily-kinesthetic, intrapersonal (self), interpersonal (social), naturalist
- STERNBERG: TRIARCHIC THEORY
 - <u>o_Analytical</u>: mental components to solve problems, what IQ tests assess (book smarts)
 - <u>o_Practical</u>: ability to size up new situations and adapt to real-life demands (street smarts)
 - <u>o</u> <u>Creative</u>: intellectual and motivational processes that lead to novel solutions, idea, products
- BINET: developed 1st intelligence test, combined with TERMAN developed the STANFORD-BINET IQ TEST
- $Q = \frac{\text{mental age}}{\text{chronological age}} \times 100$
 - <u>o</u> Chronological age = actual age
 - <u>o</u> Mental age = tested age compared to other of that age

- o_100 is average
- WECHSLER: developed the WAIS and WISC most commonly used today
- FLYNN effect: IQ has steadily risen over the past 80 years – probably due to education standards and better IQ tests
- Extremes of Intelligence: high IQ = above 135; mentally retarded = below 70

• Causes of mild retardation:

- <u>o</u> PKU liver fails to produce an ezyme needed to breakdown chemicals – leads to brain damage
- Down syndrome extra copy of 21st chromosome
- <u>o</u> Fragile X higher chance in boys due to ONE X chromosome

• Influence on IQ:

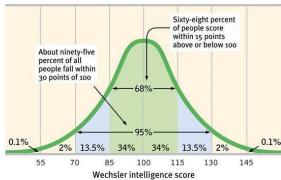
- <u>o</u> Genetics: MZ twins have similar IQ, adopted kids more similar to biological parents
- <u>o</u> Environment: early neglect leads to lower IQ, good schooling to higher IQ

● Types of Tests:

- <u>o</u> Aptitude: predicts your abilities to learn a new skill (ASVAB)
- <u>o</u> Achievement: tests what you know(SAT)

• TEST CREATION:

- <u>o Standardization</u>: administer a test to a representative sample of future test takers to establish a basis for meaningful comparison (test it out 1st)
- <u>o</u> Should be <u>reliable:</u> same results over time
 - Split-half reliability: compare two halves of the test
- Test-retest reliability: use the same test on 2 different occasions
- <u>o</u> Should be <u>valid:</u> test is accurate measures what it is intended to
 - Content validity: test measures what you want it to (an IQ test actually measures IQ)
 - Predictive validity: test is able to accurately predict a trait (high math scores predicts good engineer)
- Standardized tests establish a normal distribution
- Standard deviations are used to compare scores.



Standard deviation measures how much the scores vary from the mean. The percentages stay the same in every curve

Abnormal Behavior (7 – 9%)

• Defining abnormal behavior:

- Must be deviant, distressful, and dysfunctional
- <u>Historical causes:</u> biology, psychological issues, supernatural issues (demons)
- Medical model: emphasizes treatment of disorders, as they have a biological origin. Came through the reformation of institutions in U.S. (DORTHEA DIX)
- <u>Biopsychosocial model:</u> currently used model – stress biological, psychological, and social causes

• Diagnosing abnormal behavior:

 <u>DSM:</u> manual listing all currently accepted psychological disorders.
 Classifies them based on criteria – provides no explanation of causes or treatments

<u>ANXIETY DISORDERS</u> <u>Most common disorders in the U.S.</u>

- Generalized Anxiety Disorder (GAD): person is generally anxious, all the time, for NO REASON
- <u>Panic Disorder:</u> person is prone to frequent panic attacks (feeling like you're having a heart attack). Can come w/ **agoraphobia:** anxiety about being in places you cannot escape (fear of public spaces / people)
- **Phobias:** irrational fear that disrupts your life
- Obsessive-compulsive Disorder (OCD): person if overwhelmed with both:
 - Obsessions: persistent unwanted thoughts (did I leave the stove on?)
 - Compulsions: senseless rituals (hand washing)
- Post-traumatic stress disorder (PTSD): characterized by flashbacks, problems w/ concentration, and anxiety following a traumatic event (war, natural disasters)

CAUSES OF ANXIETY DISORDERS:

- **Psychodynamic:** repressed thoughts & feelings manifest in anxiety and rituals
 - **Behaviorist:** fear conditioning leads to anxiety, which is then reinforced. Phobias might be learned through *observational learning*
 - **Biological:** natural selection favored those with certain phobias (heights). *Twins* often share disorders. Often see **less GABA** in the brain

SOMATOFORM DISORDERS

• Psychological disorders w/ no apparent physical cause

- Conversion disorder: loss of feeling or usage of a limb or body part (sight) absolutely no physiological cause though
- <u>Hypochondriasis:</u> person interprets normal symptoms as a major disease – must disrupt their life

DISSOCIATIVE DISORDERS

- <u>Dissociative Identity Disorder:</u> formerly multiple personalities – person fractures into several distinct personalities who normally have no awareness of each other. <u>NOT</u> <u>SCHIZOPHRENIA!</u>
 - Usually caused by traumatic childhood abuse
 - Legitimacy is doubted by some, more common in those w/ good health insurance
 - Treatment involves integration of the personalities
- <u>Dissociative Fugue:</u> following a traumatic event a person leaves, taking on a whole new life & personality w/ no memory of the previous one

MOOD DISORDERS

- Major depressive disorder: extreme sadness and despair, apathy towards life, w/ no known cause
- <u>Dysthymia:</u> milder form of depression, lasts for *years* (Eeyore!)
- <u>Bipolar disorder:</u> bouts of severe depression & manic episodes
 - Mania: heightened mood, characterized by risky behaviors, fast talking, flights of ideas
- <u>Seasonal Affective Disorder (SAD):</u> form of depression that occurs typically winter found mostly in Northern areas (Alaska, Ireland) UNIQUE TREATMENT = LIGHT THERAPY

CAUSES OF MOOD DISORDERS

- <u>Biology:</u> lower levels of serotonin & norepinephrine linked to depression, higher levels of norepinephrine linked to mania.
 Runs in families suggesting GENES. Twin studies also support this.
- Cognitive: negative thought patterns leads to depression

- Disorganized thinking
- Disorganized speech
- Negative Symptoms (something taken away)
 - Flat affect: lack ability to show emotions
 - Impaired decision making, inability to pay attention
- Catatonia: become frozen over periods of time (exhibit waxy flexibility: can move them into new positions)

• CAUSES OF SCHIZOPHRENIA

- <u>o</u> Brain abnormalities: enlarged ventricles (atrophy), smaller frontal cortex
- Genetics: runs in families, MZ twins at higher risk
- <u>o</u> Dopamine hypothesis: too much dopamine in the brain
- <u>o</u> <u>Diathesis</u> <u>Stress</u>: individual has a genetic predisposition, disease must be "turned-on" by environmental stimuli (like stress) – explains why it is most commonly developed during college years

PERSONALITY DISORDERS

- Marked by disruptive, inflexible, enduring behavior patterns makes this very difficult to treat!
- Antisocial: NOT "avoidant of socialization" – more like "anti-society" – disregard for others, manipulative, breaks laws
- Borderline: instable interpersonal relationships & self-image, "I hate you, don't leave me"
- <u>Histrionic:</u> excessive emotionality & attention seeking (slut disorder)
- Narcissistic: need for admiration & lack of empathy (who cares about everyone else – look at me!)

• COGNITIVE APPROACH:

- Rational-emotive therapy: (developed by ELLIS) techniques include analyzing self-defeating behaviors to change thought patterns and then change behaviors associated w/ said patterns
 - Best for anxiety disorders
 - Very confrontational
- <u>Cognitive therapy:</u> (developed by BECK) illogical thoughts → psychological problems, challenges those thoughts
 - Best for depression
 - Self-directed you figure out your errors
- BEHAVIORAL APPROACH (typically used for anxiety disorders / phobias)
- **O Classical Conditioning:**
 - Counterconditioning Little Albert & Watson
 - Aversive conditioning: associate an unpleasant experience (e.g. nausea) w/ an unwanted behavior (e.g. drinking alcohol)
 - Exposure therapy: slowly expose people to whatever it is that makes them anxious
 - Systematic desensitization: associate a pleasant relaxed state w/ gradually increasing anxiety triggering stimuli (create a desensitization hierarchy – ex. List of things about flying that makes you nervous – step through each one till you can do it)
 - Intensive exposure therapy (Flooding): force someone to experience the fear (afraid of drowning, throw you in a pool)
- Operant Conditioning: use behavior modification (reward good behaviors w/ token reinforcers). Used in schools, w/ autistic children, etc.

• OTHER THERPAIES:

- Family therapy: treats the family as a system, individual behaviors are influenced by family dynamics
- Group therapy: therapy through a group lets patients see "they're not alone"

Treatment of Psychological Disorders (5-7%)

- <u>PSYCHODYNAMIC APPROACH:</u> SEE PERSONALITY SECTION
- **HUMANISTIC APPROACH:**
- Client-centered therapy: (developed by CARL ROGERS) techniques include active listening, accepting environment, focuses on patient growth (you figure out what needs to change and do it)

• <u>BIOLOGICAL APPROACH:</u> CALLED BIOMEDICAL THERAPIES

- o Drug therapies (psychopharmacology):
 - Anti-psychotics: decrease dopamine: treats schizophrenia
 - **Side effects:** *TARDIVE DYSKINESIA:* hand tremors (similar to Parkinson'sdue to lack of dopamine), worsening of negative symptoms, extreme sedation

<u>SCHIZOPHRENIA</u> <u>NOT MULTIPLE PERSONALITIES! THEY</u> <u>HAVE ONE PERSONALITY!</u>

• <u>SYMPTOMS</u>

- Positive Symptoms (not good means something added))
 - Hallucinations: sensory experiences w/o sensory stimulation (seeing and/or hearing things)
 - Delusions: fixed, false beliefs (people are out to get them, grandiose thoughts (I am God)

- Drug names: thorazine, clozapine
- Anti-depressants: increase serotonin through REUPTAKE inhibition
- Side effects: drowsiness, anxiety, can increase suicide risk in teens
- **Drug names:** SSRIs (selective serotonin reuptake inhibitors) like *Prozac, Zoloft, Paxil.* SNRIs (selective norepinephrine reuptake inhibitors) *Cymbalta, Effexor*
- Mood stabilizers: used in the treatment of BIPOLAR disorder: LITHIUM
- Anti-anxiety drugs: depress the central nervous system (dangerous in combo w/ alcohol) Xanax, Ativan
- o Electroconvulsive therapy (ECT): send electricity into the brain to induce minor seizures. Used (*rarely*) to treat depression (*when nothing else works*). Thought to "reboot" the brain
- Psychosurgery (frontal lobotomy): frontal lobe is surgically destroyed. Used to treat depression or violent individuals – almost never used anymore

Social (8-10%)

SOCIAL THINKING

- Attribution theory: we explain others behaviors by crediting the situation or the person's disposition (they only passed b/c they cheated)
- Fundamental attribution error (very similar to Actor-observer bias): tendency for observers to underestimate the importance of the situation and overestimate the impact of personal disposition (that guy cut me off b/c he's a jerk not that his wife could be in labor)

ATTITUDES AND ACTIONS

- Central route to persuasion: change people's attitudes through logical arguments and explanations. Leads to long term behavior change
- Peripheral route to persuasion: change people's attitudes through incidental cues (like a speaker's attractiveness). Leads to temporary behavior changes
- Foot in the door phenomenon: complying w/ a small request then leads to going along w/ a larger request (can I have \$5? Yes. Now can I have \$25?)
- **Door in the face phenomenon:** a large request is turned down, when then leads you to be more likely to comply w/ a small request (can I have \$100? Heck no! How about \$20? Okay)
- STANFORD PRISON EXPERIMENT
 (ZIMBARDO): classic "experiment" where individuals were assigned to be guards /

- prisoners. w/in days they took on their **roles** and went too far. Highly unethical
- Cognitive dissonance (FESTINGER): two
 opposing thoughts conflict w/ each other,
 causing discomfort (dissonance), which
 makes us find ways to justify the situation
 (cult that was going to be abducted by
 aliens, smokers)

SOCIAL INFLUENCE

- Conformity: classic experiment done by ASCH – showed lines of different lengths, confederates gave wrong answers to see if others would go along w/ it
 - Normative social influence: we conform to gain approval or to not stand out from the group (be part of the *norm*
 - <u>Informational social influence:</u> we conform to others b/c we think their opinions must be right
- Obedience: classic experiment done by MILGRAM: participants were to "teach" another individual using shocks. 60% of participants would administer lethal shocks to another person simply b/c they were told to

GROUP INFLUENCE

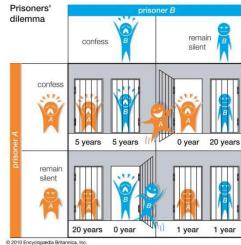
- <u>Social facilitation:</u> perform better on simple or well learned tasks in the presence of others
- <u>Social loafing:</u> tendency for ppl in a group to exert less effort when pooling their effort together (tug of war)
- <u>Deindividuation:</u> loss of self-awareness and self-restraint occurring in group situations that foster arousal and anonymity (mob mentality)
- Group polarization: the more time spent w/ a group the more similar (polarized) their thoughts / opinions will become
- **Groupthink:** desire for harmony w/in a group leads to everyone going along w/ the same thinking, ignoring other possibilities or bad ideas
- <u>Risky shift:</u> groups make riskier decisions together rather than alone PREJUDICE
- Ingroup: "US" ppl w/ whom we share a common identity
- Outgroup: "them" ppl perceived as different or not part of the group
- Ingroup bias: tendency to favor our own group
- <u>Scapegoat theory:</u> prejudice offers an outlet for anger by providing someone else to blame
- Ethnocentrism: tendency to see your own group as more important than others
- Just-world phenomenon: tendency for ppl to believe that the world is just and therefore ppl get what they deserve (homeless ppl)

AGGRESION

- Genetic influence: runs in families, can breed for in animals
- Lower serotonin, higher testosterone
- Environmental influence: social learning theory (BANDURA) – observing violence in others makes us more violent for a time
- o Also: pollution, crowding, heat, humidity
- Frustration-aggression hypothesis: frustration creates anger, which leads to aggression

ATTRACTION

- Mere exposure effect: repeated exposure to novel stimuli increases liking of them (the more time you spend around something the more you like it)
- Physical attractiveness: pretty ppl are thought to be more credible, less likely to do bad things
- Similarity: we prefer ppl similar to us <u>ALTRUISM</u>
- <u>Altruism:</u> unselfish regard for the welfare of others
- <u>Bystander effect:</u> the more ppl around the less likely we are to help someone in need
- <u>Social exchange theory:</u> social behavior (helping) is an exchange process – aim is to maximize benefits and minimize cost
- Reciprocity norm: we give so we can get CONFLICT
- <u>Social trap:</u> conflicting parties pursue their own best interests, which can result in destructive results (prisoner's dilemma – game theory)



- Approach approach conflict: win win situation; conflict is which win you have to choose (you can eat out at ONE of your two favorite restaurants you can only choose one though)
- Approach avoidance conflict: win lose situation; outcome has positive and negative aspects (marriage)

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- Avoidance avoidance conflict: lose –
 lose; both outcomes are bad but you have
 to choose one (clean your room or do
 your homework)
- Multiple approach avoidance conflict: two (or more) win-lose situations; conflict is which to choose (College A is good for your major but no scholarship, College B is bad for your major but has a scholarship)

SOCIAL SELF

- <u>Self-concept bias:</u> what we consider important in ourselves is what we consider important in others
- <u>False-consensus effect:</u> we overestimate the degree to which everyone else thinks / acts the way we do
- <u>Self-fulfilling prophecy:</u> a belief that leads to its own fulfillment (I expect you all to pass, you know this, you study fulfilling my prophecy)
- <u>Self-serving bias:</u> readiness to perceive ourselves as favorably
- Spotlight effect (self-objectification): tendency of an individual to overestimate the extent to which others are paying attention to them

MULTIPLE CHOICE STRATEGIES

- Bubble as you go you don't want to run out of time!
- Answer EVERY QUESTION you don't lose points for guessing
 - o If you run out of time pick either B, C, or D and bubble straight down.
- If you don't recognize an answer choice it probably IS NOT THE ANSWER

ESSAY WRITING STRATEGIES

ANSWER THE STUPID QUESTION!

- Don't write in bullet points!
 - No Fluff no transitions no topic / thesis statements
- Be specific and apply the answer to the prompt

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GOOD LUCK EVERYONE!