

Advanced Psychology

Review Sheet for the Final Exam

There will be two parts to your final exam. The first part will include 150 objective questions (true-false and matching) coming from the material on this review sheet. The second part will be skills-based, focusing on experimental design and analysis.

Chapter 1: The Scientific Method (13)

- case studies, naturalistic observation, surveys
- correlation research methods
- experimental research
- Independent vs. dependent variable
- Experimental vs. control groups
- Controls
 - o random sampling
 - o random assignment
 - o double-blind
 - o placebo
- hindsight bias
- overconfidence
- normal distribution
- Correlation coefficients

Chapter 2: Neurobiology (17)

- Axons, dendrites, synaptic gap, myelin sheath
- Acetylcholine, endorphins, serotonin, dopamine
- Sympathetic nervous system
- Parasympathetic nervous system
- Brainstem
 - o medulla (heartbeat and breathing)
 - o reticular formation (arousal center)
 - o thalamus (the “sensory switchboard”)
- limbic system
 - o hippocampus (memory)
 - o hypothalamus (drives (eating and sex)/“pleasure center”)
 - o cerebellum (balance and coordination)
 - o amygdala (fear and aggression)
- cerebral cortex
 - o occipital (vision)
 - o parietal (sensory cortex)
 - o temporal (hearing)
 - o frontal (personality and judgment/ motor cortex)
 - o Right hemisphere: spatial and emotions
 - o Left: language and logic
 - o Broca’s area – making speech (left frontal)
 - o Wernicke’s areas – comprehending speech (left temporal)

Chapter 4: Development (13)

- Identical twins (from same fertilized egg)
- Fraternal twins (from two separate eggs).
- Attachment
- Cognitive development (Piaget)

- o Schema, assimilation, accommodation
- o Object permanence
- o Egocentrism
- o Stranger anxiety
- o Conservation
- o Sensorimotor, preoperational, concrete, formal
- Authoritative, authoritarian, permissive
- Moral development (Kohlberg)
 - o Pre-conventional, conventional, post-Conventional
- Social Development (Erikson)
 - o Trust v. Mistrust (infants)
 - o Identity v. Role Confusion
 - o Intimacy v. Isolation (young adults)
- Alzheimer’s Disease (decreased acetylcholine)
- Parkinson’s Disease (decreased dopamine)
- Cross-sectional v. Longitudinal
- Fluid v. crystallized Intelligence

Chapters 5-6: Sensation and Perception (17)

- Absolute threshold
- Weber’s law
- Vision
 - o Parts of the eye: pupil, lens, retina (rods and cones), fovea
- Blind spot
- Hearing
 - o Parts of the ear: eardrum, bones of the middle ear, cochlea, hair cells
- Vestibular
- Kinesthesia
- Selective attention
- Perceptual set
- Visual capture
- Binocular cues (retinal disparity, convergence)
- Monocular cues (relative size, relative height, texture gradient, interposition, linear perspective, relative clarity)

Chapter 8: Learning (8)

- Classical conditioning (Pavlov)
 - o CS, UCS, CR, and UCR
- Acquisition, extinction, spontaneous recovery, discrimination, generalization
- Operant Conditioning (Skinner)
 - o Shaping, Primary and secondary reinforcers, overjustification effect
- Partial schedules of reinforcement: fixed ratio, variable ratio, variable interval, fixed interval
- Observational Learning (Bandura and “Bobo doll” experiment)

Chapter 9: Memory (6)

- context effect
- Encoding, storage, retrieval
- Mnemonic devices
- Spacing effect
- Serial position effect
- Proactive interference
- Retroactive interference
- forgetting curve

Chapter 10: Thinking and Language (6)

- Prototypes
- Algorithms
- Heuristics
 - o Representativeness
 - o Availability
- Functional fixedness
- Framing
- Phonemes and morphemes
- Critical period

Chapter 11: Intelligence (7)

- Achievement tests (AP exams)
- Aptitude tests (SATs, IQ tests...)
- Reliability
- Validity
- Factor Analysis
- "G" Factor (Spearman)
- Gardner's Multiple intelligences
- Emotional Intelligence

Chapter 7: States of Consciousness (6)

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)

Chapter 14: Personality (16)

- **Psychoanalytic**
 - o Free Association
 - o Dream interpretation
 - o Id, Ego, Superego
 - o Development stages (oral, anal, phallic – Oedipus complex – latency period, genital stage)
 - o Defense mechanisms (repression, reaction formation, projection, displacement, sublimation)
 - o Projective tests (TAT, Rorschach)
- **Trait**
 - o Personality Factors (the big 5)
 - o Myers-Briggs, MMPI
- **Humanistic**
 - o Maslow (hierarchy of needs, self-actualization)

- o Rogers (UPR)

- **Socio-Cognitive**

- o Bandura
- o Reciprocal determinism
- o Internal v. external locus of control
- o Learned helplessness

Chapter 15: Psychological Disorders (12)

- *DSM-IV*
- Anxiety Disorders
 - o Generalized Anxiety Disorder
 - o Panic Disorder
 - o Phobias (agoraphobia)
 - o Obsessive-Compulsive Disorder
- Somatoform Disorders
 - o Conversion Disorder
 - o Hypochondriasis
- Dissociative Disorders (amnesia, fugue, DID)
- Mood Disorders
 - o Major Depressive Disorder
 - o Dysthymic disorder
 - o Bipolar Disorder
- Schizophrenia (increased dopamine)

Chapter 16: Therapy (8)

- Psychoanalysis (Freud, unconscious conflicts)
- Humanistic (Rogers, self-actualization)
 - o Active listening, client-centered therapy
- Behavioral (Skinner)
 - o Systematic desensitization
 - o Aversive conditioning
 - o token economy
- Cognitive (thinking)
 - o Internal, external locus
- Eclectic Therapy (many different approaches)

Chapter 12: Motivation and Eating (7)

- Instinct vs. drive-reduction vs. optimum arousal
- Ventromedial vs. lateral hypothalamus
- Set point
- Anorexia and Bulimia
- Intrinsic vs. extrinsic Motivation

Chapter 18: Social Psychology (8)

- Fundamental Attribution Error
- "Foot-in-the-Door" Phenomenon
- Cognitive dissonance
- Group polarization
- Groupthink
- Social facilitation
- De-individuation
- Social loafing
- Asch Line Experiment
- Milgram Experiment