

Psychology 2301 Exam 1 Review

Professor Hutchinson

Chapter 1: Mind, Behavior, & Psychological Science

*What is the complete definition of Psychology

*What are the steps of the Scientific Method

*Theory vs. Hypothesis- What are the definitions of each and how are they different

*Descriptive Methods of Research- what is the purpose of descriptive research? know the definition of and purpose of the 4 types of descriptive research: Naturalistic Observation, Surveys and Interviews, Standardized Tests, Case Study

*Correlational research- what is the purpose/goal of correlational research? What do magnitude and direction explain? What does a positive vs. a negative correlation mean? What is the strongest relationship? Weakest relationship?

*Experimental Design (research) What is the purpose of the experimental design? Define, explain, and give examples for Independent Variable and Dependent Variable. Explain the difference between the experimental group and control group. What is a placebo, why is it given, and to whom? Describe random assignment. What is experimenter bias, participant bias, and how can they be alleviated?

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Explain the difference between Population vs. Sample in research

Describe each of the following approaches to psychology

Behavioral Approach

Social Cognitive Approach

Psychodynamic Approach

Cognitive & Cognitive Behavioral

Biological View/ Behavioral Neuroscience Approach

Developmental Approach

Sociocultural Approach

Humanistic Approach

Trait View

Careers in Psychology: What are the basic duties of:
Psychologist

Psychiatrist

Licensed Professional Counselor

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Chapter 2: Biospsychology

Organization of Nervous System:

What composes the Central Nervous System?

What composes the Peripheral Nervous System?

Explain the responsibilities of the subdivisions of the PNS

What is the definition of a neuron?

Define and explain the purpose the 6 main structures of a neuron identified in class

What is a Neurotransmitter?

What is the normal function of the following NTs?

Dopamine

Serotonin

Norepinephrine

Endorphins

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Identify the 4 lobes of the brain and explain what each lobe is basically responsible for (as noted in lecture)

Who was Phineas Gage, what happened to him, and why was his story significant to psychology?

What is the Corpus Callosum and what does it allow?

Explain Split-brain patients- what happened to them, why did it happen, and what is the result?

Chapter 3: Sensation & Perception

What is the definition of Sensation?

What is the definition of Perception?

Define and explain Absolute Threshold

Define "Noise" as it relates to the absolute threshold

Define Subliminal Perception. Is it believed to be effective based on scientific research?

Define the Difference Threshold and Weber's Law.

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Define Sensory Adaptation and provide an example

Identify and define the 9 structures of the eye discussed in lecture

Briefly explain the Trichromatic Theory of Vision and Color Blindness

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What are After Images?

Identify common monocular cues that help with depth perception

Explain the Process of hearing including the 3 main parts of the ear and the 8 main structures identified in lecture

Explain the final process in hearing

What are the sensory receptors for taste? What are they covered by?

What is the Olfactory Epithelium? What happens to neurons there after injury?

Chapter 8: States of Consciousness

Identify/Explain the 5 levels of awareness

Explain/Define Biological and Circadian rhythms

Identify the 4 benefits of sleep

Describe each of the Sleep stages and activity that occurs at each stage (Stage 1, 2, 3, 4, and 5 aka REM)

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Identify the basic symptoms of the following sleep disorders:

Insomnia

Narcolepsy

sleep terrors

sleep apnea

Dreams: Define and explain the difference between manifest content and latent content

Hypnosis: define and note its effectiveness

Psychoactive drugs: definition and distinction between-
Tolerance

physical dependence

psychological dependenc

addiction

What is the general definition of a Depressants?

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How do alcohol, barbiturates, benzodiazepines, rohypnol affect the brain and body?

Stimulants: General definition and explain how caffeine, tobacco, amphetamines, cocaine, MDMA affect the brain and body

Opiates: General definition and explain how Morphine, Heroin, Codeine, Methadone affect body

Hallucinogens: General definition and explain how LSD, Marijuana, Mescaline, PCP affect the brain and body