**AP Psychology**

Unit 3 Test review: Biological Bases of Behavior

*Modules 9-14 (pages 76-143)*

The key terms, concepts, and contributors from your Unit 3 vocabulary will comprise some of the knowledge you will need to recall for the test; make sure to study those. *\*\*Key terms/people\*\** In addition, the topics below may be the source of questions on your version of the Unit 3 Test:

Module 9-Biological Psychology & Neurotransmission *Be able to explain/apply these terms/concepts:*

Action potential

Antagonists

Agonists

Interneurons

Motor neurons

Myelin sheath

Neuron\*\*

Neurotransmitters\*\*

Resting potential

Selective permeability\*\*

Sensory neurons

You will need to be familiar with the way neurons communicate, both WITHIN individual neurons, and BETWEEN neurons.

Make sure you are familiar with the different Neurotransmitters involved in neural communication, and their functions/malfunctions.

Module 10-The Nervous & Endocrine Systems *Be able to explain/apply these terms/concepts:*

Neural network\*\*

Nervous System\*\*

Central Nervous System (CNS)\*\*

Peripheral Nervous System (PNS)\*\*

Somatic Nervous System\*\*

Autonomic Nervous System\*\*

Sympathetic Nervous System\*\*

Parasympathetic Nervous System\*\*

Make sure you understand what each part of the nervous system is responsible for.

Be able to explain how motor neurons, interneurons, and sensory neurons enable movement.

Be able to explain how the Nervous & endocrine systems are similar/different.

Be familiar with the glands of the endocrine system, types of hormones they secrete, and what the function/effects of those hormones are.

Modules 11 & 12-Studying the brain, & older brain structures & Cerebral Cortex *Be able to explain/apply these terms/concepts:*

Electroencephalogram (EEG)\*\*

CT (Computed Tomography) Scan\*\*

PET (Positron Emission) Scan\*\*

MRI (Magnetic Resonance Imaging)\*\*

fMRI (Functional MRI)\*\*

Make sure you are able to identify the location & function of the following structures of the brain:

Frontal lobe

Parietal lobe

Temporal lobe

Occipital lobe

Pons

Reticular formation

Thalamus

Corpus Callosum

Limbic system

Sensory cortex

Cerebral cortex

Broca’s area

Wernicki’s area

Module 13-Brain hemisphere organization & the biology of consciousness *Be able to explain/apply these terms/concepts:*

Plasticity\*\*

Split Brain\*\*

Dual Processing\*\*

Lateralization

Cognitive neuroscience\*\*

Make sure you are familiar with the typical functions that the hemispheres of the brain are associated with.

Be able to explain the science behind the study of “handedness.”

Be able to explain the difference between conscious processing of information and subconscious processing of information.

Module 14-Behavior Genetics: Predicting individual differences *Be able to explain/apply these terms/concepts:*

Behavior Genetics\*\*

Genes\*\*

Genome\*\*

Heritability\*\*

Molecular Genetics\*\*

Make sure you understand & can explain the results of twin studies.

Make sure you understand & can explain the results of adoption studies.

Module 15-Evolutionary Psychology: Understanding Human Nature *Be able to explain/apply these terms/concepts:*

Evolutionary Psychology\*\*

Natural Selection\*\*

Make sure you have an **IN-DEPTH** understanding of evolutionary psychology, specifically with regards to sexuality & mating preferences, but how it can be applied to other areas, as well.

Be able to explain and apply the biopsychosocial approach to individual development.

FRQ review:

Make sure you are familiar with/able to apply the neural communication process. You should also be aware of how the individual neural communication process is part of the larger Central & Peripheral Nervous system(s).