

Hthsci 1110 Biomedical Core Final Exam Objectives

Module 1 Objectives (6)

- 2 Relationship between structure and function
- 6 Human anatomical position
- 8 Directional terms
- 9 Body planes
- 12 Location of organs in body cavities
- 16 Homeostasis

Module 2 Objectives (13)

- 2 Atomic symbols
- 4-5 Atomic structure and periodic chart
- 7 Ions
- 9 Chemical bonding
- 12 Polyatomic ions
- 13 Solvent vs. solute
- 18-23 pH
- 26 Chemical reactions

Module 3 Objectives (15)

- 3 Building blocks of organic molecules
- 6 Properties of carbon
- 8 Carbohydrates
- 10 Physiological role of carbohydrates
- 11-12 Amino acids
- 13-14 Protein structure and denaturation
- 16-17 Enzymes
- 18-19 Fats
- 22 Hydrolysis and dehydration synthesis reactions
- 38 Temperature control
- 39 Hypothermia and hyperthermia

Module 4 Objectives (13)

- 3 Cell membrane
- 5-9 Transport processes
- 12-13 Cell nucleus
- 14 Cell organelles
- 18-19 Mitosis
- 20-22 DNA replication and protein synthesis

Module 5 Objectives (11)

- 4-5 Bacterial types and gram + vs. gram -
- 6 Sporulation
- 9 Viral Replication
- 10 Symbiotic relationships
- 12 Disease transmission
- 14 Pathogenic mechanisms
- 18 Nosocomial infections
- 23 Sterilization vs. disinfection
- 26 Antibiotics
- 28 Vaccines

Module 6 Objectives (11)

- 3 Major functions of tissue types
- 4 Epithelial tissue
- 5 Epithelial shapes
- 11 Epithelial vs. connective Tissue
- 12 Connective tissue
- 14 Fibers
- 17 Epithelial vs. synovial membranes
- 18 Serous membranes
- 22 Layers of the skin
- 25 Types of glands
- 34 Tissue vulnerability

Module 7 Objectives (12)

- 2 Organization of the nervous system
- 4 Neuron structure
- 6 Afferent, efferent, and internuncial neurons
- 7 Nerve tissue regeneration
- 9 Nerve impulse
- 12 Synaptic terminology
- 14 Acetylcholine
- 23-24 Diagnostic measurements and treatments
- 26 Structures in the CNS and PNS
- 30 Spinal cord anatomy and spinal nerve structures
- 32 Reflex arc

Module 8 Objectives (10)

- 2 CSF
- 3 Blood-brain barrier
- 4 Brain stem
- 6 Diencephalon
- 8 Cerebral lobes
- 17 Cranial nerves
- 19 Parasympathetic vs. Sympathetic
- 22 Neurotransmitters of the Parasympathetic vs. Sympathetic divisions
- 24 Sympathetic stimulation
- 29 Microbial access to the CNS

Module 9 Objectives (9)

- 6 Pain
- 10 Taste and smell pathways
- 13 Three tunics
- 16 Processes to facilitate focusing
- 21 Cone vs. rods
- 24 Parts of the ear
- 25 Eustachian tube
- 28 Static vs. dynamic equilibrium
- 31 Transverse vs. longitudinal waves