

Final Exam Objectives
Hthsci 1111

Module 7

9 Nerve impulse
12 Synaptic terminology
26 Structures in the CNS and PNS
30 Spinal cord anatomy and spinal nerve structures
32 Reflex arc

Module 8

2 CSF
3 Blood-brain barrier
4 Brain stem
19 Parasympathetic vs Sympathetic
22 Neurotransmitters of the Parasympathetic vs Sympathetic
24 Sympathetic stimulation

Module 9

10 Taste and smell pathways
13 Three tunics
21 Cone vs rods
24 Parts of the ear
25 Eustachian tube
26 Passage of Sound Waves

Module 10

2 Endocrine vs Exocrine
7 Pituitary
8 Hormones
11 Functions of Thyroxin
12 Calcitonin
15 Parathyroid Hormone
21 Glucose and Glycogen

Module 11

1 Blood Function
11 CBC
16 Stages of Homeostasis
17 Coagulation
18 3 stages of coagulation
19 blood clotting
21 ABO
27-29 Lymphatic Systems
33 Ag-Ab
35-37 T Lymphocytes and B lymphocytes
38 Primary –Secondary Immune Response
42 types of immunity
43-44 Inflammation

Module 12

4 Trace blood through heart
5 Heart conduction
9 Cardiac cycle of heart
12 Cardiac output
14 Sympathetic-parasympathetic stimulation of heart
16 Circulation, shock
23 Factors influencing blood flow rate
25 Arteries, capillaries, vein function
34 Pulmonary circulation

Module 13

4 Gas laws
8 Respiratory anatomy
15 Alveoli
16 Thoracic Volume; Pressure Changes
18 Internal and External Respiration
25 Respiratory Diseases

Module 14

2 Nephron anatomy
3 Blood Supply to Kidney
4 Basic physiological processes
5-7 Glomerular filtration and filtration forces
9-10 Reabsorption and secretion
31-32 Capillary filtration and reabsorption; edema
35 Metabolic and respiration acidosis/alkalosis

Module 15

1 Chemical and mechanical process of digestion
2 Structures of wall of alimentary canal
13 Rugae
14-15 Stomach and Gastric Juice
16-17 Pancreas
18 Liver anatomy
19 Liver Lobules
20 Gall Bladder
22-25 Small Intestine
26 Large Intestine
27 Feces Formation
28 Defecation

Module 16

1 Metabolism definitions
2 Glucose metabolism
5-7 Lipid Metabolism
8-10 Protein Metabolisms
12 Metabolic hormones
13 Minerals
14-16 Vitamins
20-23 E coli

Module 17

1 Major Functions
2 Compare cartilage/bone
4 Structure of typical long bone
5 Structural functions of compact/spongy bone
6 Ossification
10 Homeostasis of bone
14 Characteristics of benign vs malignant tumors
21 Appendicular/axial skeletal
26 Difference of spinal abnormalities
29 Major differences between male and female skeleton

Module 18

1 Function and characteristics of muscle
8 Sliding filament theory
9 Role of structures in neuromuscular junction
11 Physiology of muscle contraction
12 Chemical reactions responsible for supplying energy for muscular contractions
15 Muscle Homeostasis
16 Recovery oxygen contraction (O₂ debt)
17 Muscular Disorders
21 Fulcrum, lever, and effort
24 Criteria for naming muscles
25 Skeletal Muscles
27-28 Route os injections and sites for IM injections
34 Mass
35 Correct body muscles for lifting a heavy object

Module 19

5-6 Spermatogenesis
8 Physiology of the penis
13 Female reproductive cycle
20 Reproductive terminology
21 Cell reproduction
22 Sexual physiology
26 Labor stages
31 Contraceptive methods
32 Flora of Genital Tract