

Exam 1 breakdown: updated 9/16/23

Ch 2 part 1 (cell metabolism) – 20 questions

- 4 questions on “G” vocab words (glycolysis, glycogen, glucagon, glycogenesis, glycogenolysis, gluconeogenesis).
- 3 questions on glycogen metabolism enzymes (glycogen synthase, glycogen phosphorylase, and glucose 6 phosphatase)
 - which are used in glycogenesis vs glycogenolysis?
- 2 on lactic acid metabolism (and problems associated with it, like angina pectoris)
- 3 on lipogenesis and **lipogenesis** lipolysis
- 3 on amino acid metabolism by the liver (and problems with amino acid metabolism)
- 4 on aerobic respiration pathway (know what enters a pathway, and what is the main product). Know all the products of the electron transport chain.
- 1 on the things that can cause acidosis when they’re metabolized.

Ch 2 part 2 (cell transport) – 10 questions

- 5 on the types of passive transport (diffusion, facilitated diffusion, osmosis, filtration)
- 4 on active transport pumps and bulk transport
- 1 on co-transport vs countertransport

Ch 4 part 1 (neurons and neurotransmitters) – 20 questions

- 2 on ion channels that, when open, cause an EPSP or IPSP
- 3 on glial cells
- 2 on graded potential vs summation
- 5 on ACh and its receptors in parasympathetic (autonomic) responses, and voluntary skeletal muscle activity
- 4 on cholinergic syndrome and its treatment
- 3 on toxins and ACh signaling
- 1 on ACh signaling in alzheimers vs myasthenia gravis