Exam 1 breakdown: updated 2/3/25

Ch 2 part 1 (cell metabolism) – 20 questions
3 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?
1 on lactic acid metabolism
3 on lipogenesis and 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.
2 on anaerobic respirations (and the products of it, and what happens to brain or heart tissue if forced to respire this way)
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, 2 types of facilitated diffusion, osmosis, filtration)
4 on active transport pumps and bulk transport
1 on co-transport vs counter-transport

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 Alzheimer's vs Myasthenia gravis