

Exam 1 breakdown: updated 2/11/26

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 (and clinical application of it)

Ch 4 part 1 (neurons and neurotransmitters) – 20 questions (This might change depending on what we get through by end of Wed Feb 11th.)

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

5 on cholinergic syndrome (know the DUMBBELSS mnemonic) and its treatment

3 on toxins and ACh signaling (review acetylcholinesterase inhibitors, tetanus toxin, botulism toxin, paralytic shellfish toxin, and pufferfish toxin)

~~1 on ACh signaling in Alzheimer’s vs Myasthenia gravis~~