**Question 1**

Identify the incorrect intracellular concentration of the following:

Select one:

a. Magnesium 38

b. Chloride 10

c. Potassium 150

d. Sodium 145

Answer D. Ganong 23rd Edition pg 8 table 1-1

**Question 2**

The following is true of membrane potential:

Select one:

a. The NaK ATPase pump pumps potassium out of the cell

b. The NaK ATPase pump swaps 2 sodium ions for 3 potassium ions

c. The concentration gradient of potassium is into the cell

d. At equilibrium, there is an excess of anions inside the cell

Answer D. Ganong 23rd Edition pg 8

**Question 3**

The content of chylomicrons includes

Select one:

a. Lethicin 10%, Cholesterol 25%, Triglyceride 65%

b. Apoprotein E and Apoprotein A

c. Cholesterol 30%, protein 20%, triglyceride 50%

d. Protein 2%, Cholesterol 5%, Triglyceride 90%

Answer D. Ganong 23rd Edition pg 26 Table 1-5

**Question 4**

Which of the following is NOT true of a 70 kg man:

Select one:

a. 60 % of the total body mass is water

b. 5 % of total body mass is interstitial fluid

c. 5 % of total body mass is blood plasma

d. 40 % of total body mass is intracellular fluid

Answer B. Ganong 23rd Edition pg 3 Figure 1-1

**Question 5**

All are true EXCEPT:

Select one:

a. Transcellular fluids include CSF, intraocular fluid and glandular secretions

b. Osmolality is the number of osmoles per kilogram of solvent

c. The ECF:intracellular fluid volume ratio is smaller in children than adults

d. Total body water forms a smaller proportion of total mass in women than in men

Answer C. Yes, this is a false statement. Ganong 23rd Edition pg 3 figure 1-1

**Question 6**

Which of the following can’t be used to measure plasma volume?

Select one:

a. Evans blue

b. Total blood volume – red cell volume

c. Labelled red cells

d. 5% body weight

Answer C. “red cell volume measured by tagged RBC’s”

**Question 7**

Which is used to measure total body water?

Select one:

a. Radioactive iodine labelled albumin

b. Evans blue

c. Tritium oxide

d. Inulin

Answer C.

**Question 8**

Diffusion at equilibrium:

Select one:

a. Is dependent on the oncotic pressure

b. Is directly proportional to the area and the thickness of the membrane

c. Is the process by which a substance in solution contracts

d. Is independent of the tissue hydrostatic pressure

Answer D. Ganong 23rd Edition pg 548 filtration, see starling forces

**Question 9**

Regarding ketone bodies

Select one:

a. Liver can add acetyl coA to acetoacetate for metabolism in the citric acid cycle

b. Aceto acetate and gammahydroxybutiric acid are ketone bodies

c. Aceto acetate is converted to betahydroxybut and acetone

d. The HMG CoA pathway in the liver is quantitatively the least important

Answer C. Ganong 23rd Edition pg 24 "beta hydroxybutyrate"

**Question 10**

Cholesterol:

Select one:

a. All of the above

b. Is necessary for cell membrane structure

c. A similar form is found in animals

d. Is used in the making of bile acids

Answer A. Ganong 23rd Edition pg 27