Q1/ define the following:

- 1. Triglycerides
- 2. Glycerol
- 3. Fatty acid
- 4. Carnitine
- 5. Proteins
- 6. deamination

Q2/Fill in the blanks:

- **3-** The breakdown of fatty acids takes place inside the _____.
- 4- <u>A compound that transports fatty acids from the cytosol into the mitochondria, where they undergo beta-oxidation.</u>
- **5-** Beta-oxidation of a fatty acid produces a flood of ______ that can enter the citric acid cycle.

Q3/ True or false

1- Fatty acid: is a small three-carbon molecule, carries a relatively small amount of energy and can be converted by the liver to pyruvate or glucose. F

2-Glycerol: is a long hydrocarbon chain that has a carboxyl group (COOH).F

3- All of the three steps of lipid metabolism occur in mitochondria of living cells T

4- Because protein has vital structural and functional roles, proteins and amino acids are considered primary sources of energy. F

5- During starvation, energy needs take priority, so the body breaks down protein and extracts energy from the amino acid building blocks. T