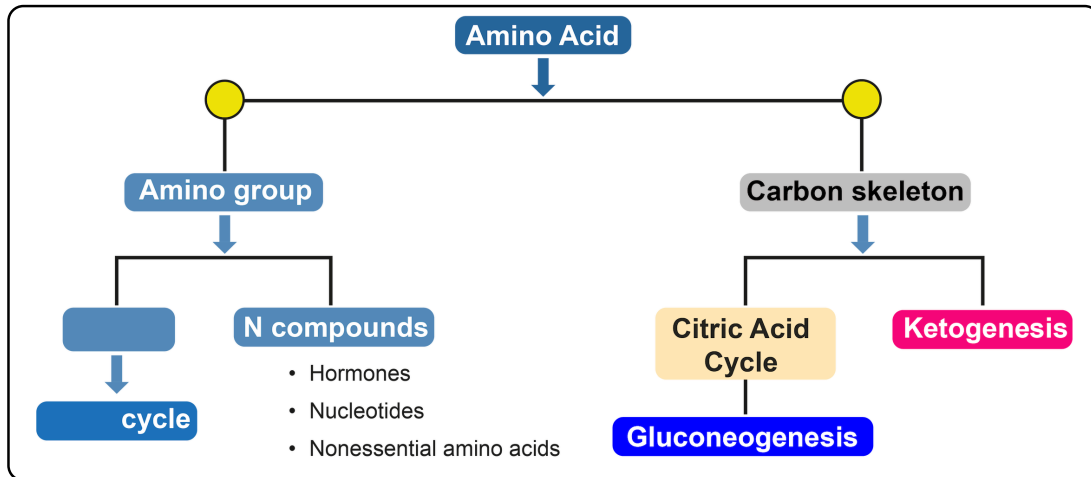


CONCEPT: INTRO TO AMINO ACID CATABOLISM

- Excess amino acids travel to the liver for catabolism when [____] exceeds protein synthesis requirements.
 - Amino group is excreted because it cannot be stored, while C atoms are used for energy.
- Amino acid catabolism has 2 phases:
 - ① Amino group is _____ and taken to _____ cycle to be excreted from the body.
 - ② C skeleton of amino acid is used to make _____ producing intermediates.



EXAMPLE: Which statement best describes the fate of excess amino acids?

- a) Amino acids travel to the kidneys and are excreted in the urine.
- b) Amino acids are stored in the liver for later use as energy.
- c) Carbon skeletons are converted to citric acid cycle intermediates and then back to amino acids when needed.
- d) Amino group of amino acids are removed and converted to urea.