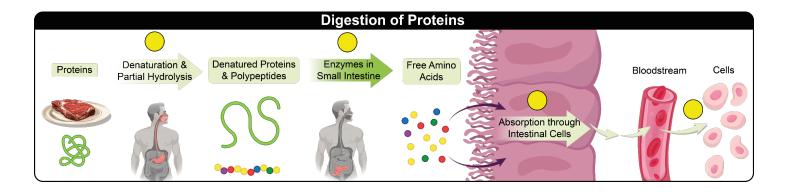
CONCEPT: DIGESTION OF PROTEINS

The	main purpose of protein	digestion is to p	roduce amino a	acids for the	of new proteins.
	$\hfill\Box$ Digestion begins in the stomach.		□ Final	takes place inside the small intestine.	
(A)	After mechanical digestion	n in the mouth, fo	ood enters the	stomach.	
	□ Stomach acid	proteins.	□ Pepsin bre	eaks large proteins ir	nto
B	Proteases in the small intestine (Trypsin, chymotrypsin, etc.) hydrolyze proteins to amino acids.				
C A	Amino acids are absorbed into the bloodstream through intestinal cells.				
(D) [Delivered to cells through	the bloodstream	١.		



EXAMPLE: Which of the following statements is incorrect about the digestion of proteins?

- a) Denaturation in the stomach makes the peptide bonds accessible to proteases.
- b) Pepsin in the stomach breaks large proteins into smaller polypeptides.
- c) Proteases in the small intestine hydrolyze proteins and polypeptides into free amino acids.
- d) Protein digestion begins in the mouth by enzymes in the saliva.

PRACTICE: Which of the following statements is correct about food digestion?

- a) Lipids are completely hydrolyzed inside the stomach through acidic hydrolysis.
- b) Unlike lipids, monosaccharides and amino acids are directly absorbed into the bloodstream through intestinal cells.
- c) Similar to proteins, large polysaccharide chains are also denatured in the stomach.
- d) Carbohydrates and amino acids are digested to produce energy while lipids enter anabolic pathways.