

# GIT-biochemistry

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## Archive

### Lecture 2

major type of digestion and nutrients II

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Corrected

## Biochem - lecture (2)

1. pancreatic enzymes: A- Contain enzymes that digest fatty acids. B- CCK-PZ increase aqueous secretion from duct. C- pH is 6-7,8. D- Pancreatic juice have low  $\text{HCO}_3^-$ . E- Secretin absorbed from blood stream.

Answer. A

2. lysophospholipid

- a. digested from phospholipid
- b. Digested from cholesterol
- c. Digested by colipase

Answer: A

3. The enzyme that tolerates high acidity

- a. Lipase
- b. amylase
- c. Pepsin
- d. Lysozymes

answer : c

4. One of the following is true about enteropeptidase

It cleaves the protein inside the chain not outside

## Biochem - lecture (2)

5. In Chymotrypsinogen activation which two amino acids of the followings are removed?

- A. Threonine<sup>147</sup>- Asparagine<sup>148</sup>
- B. Tyrosine<sup>147</sup>-Arginine<sup>148</sup>
- C. Serine<sup>147</sup>- Arginine<sup>148</sup>
- D. Tyrosine<sup>14</sup>- Asparagine<sup>15</sup>

ANSWER: A

6. Emulsification of fat, choose the wrong statement?

- a. The charged hydrophilic side of bile salt will be projecting from the surface of micelles
- b. Micelles are soluble in water
- c. The hydrophobic side of the bile salts mix with fat droplet
- d. Gastric lipase digest the fat in micelle producing fatty acids and 2-monoacylglycerols
- e. This process mixes two different substances that normally do not mix together

ANSWER: D

## Biochem - lecture (2)

7. phospholipase A2?

- a. remove fatty acids from compounds
- b. digests dietary triacylglycerols producing 2 free fatty acids and 2-monoacy glycerol
- c. Digests phospholipids to free fatty acid and a Lysphospholipid

Answer: C

8. Which of the following statements about fat absorption is WRONG?

- A) Short- and medium-chain fatty acids are absorbed directly into intestinal epithelial cells
- B) Triacylglycerols are packaged into chylomicrons then secreted directly into portal vein
- C) Short- and medium-chain fatty acids enter the portal blood and are transported to the liver bound to serum albumin
- D) The digested fatty acids and 2-monoacylglycerols are resynthesized into triacylglycerols in the endoplasmic reticulum of intestinal epithelial cells
- E) Enterocytes use diffusion and protein-mediated transport mechanisms to take up 2-monoacylglycerols and free fatty acids

Answer: B