

LAB 2 REVIEW

Metabolism, pH and Urinary

How many grams of carbohydrates do you need daily to maintain adequate blood glucose levels?

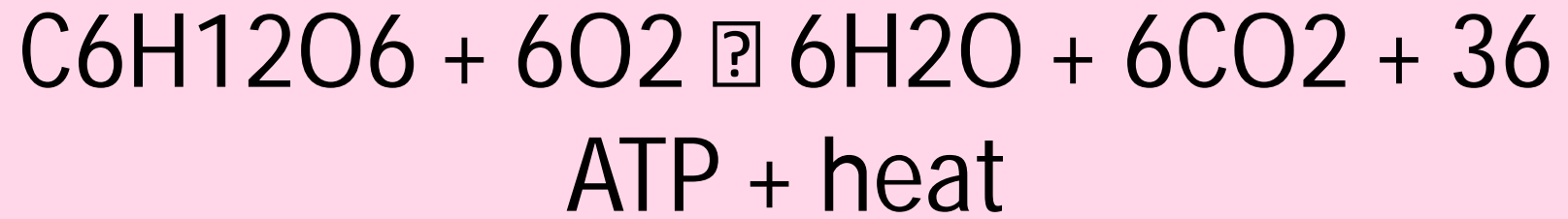
How many grams of carbohydrates do you need daily to maintain adequate blood glucose levels?

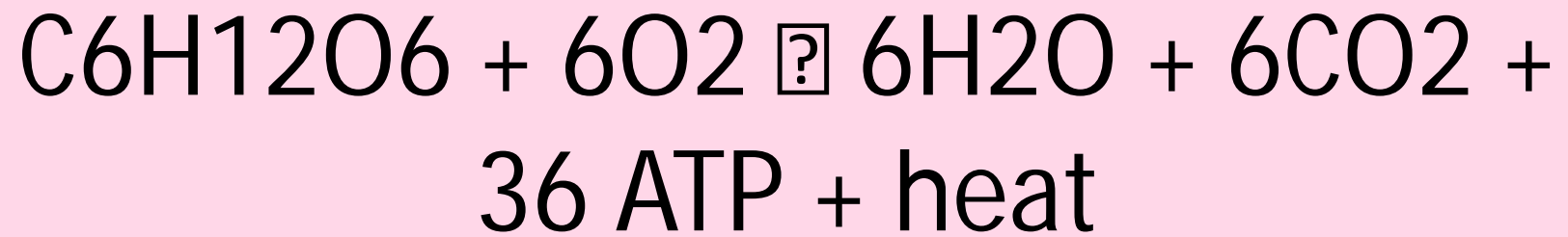
100 g/day

What percentage of our caloric intake
is lost as heat?

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is lost as heat?

50%





Oxidation of glucose

How many kcal per gram will you find
in fats?

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in fats?

9kcal

Where does the Krebs Cycle take place?

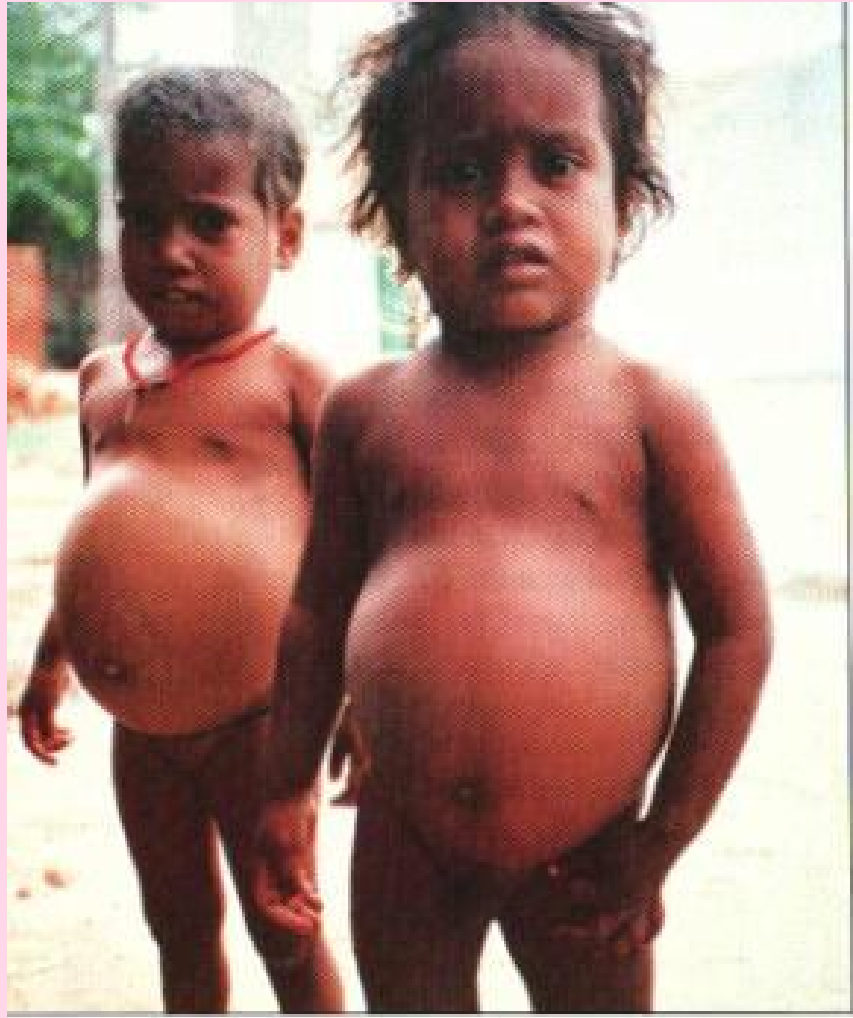
Where does the Krebs Cycle take place?

Mitochondrial matrix

Which vitamins are produced by our bodies (THREE)?

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B, D and K



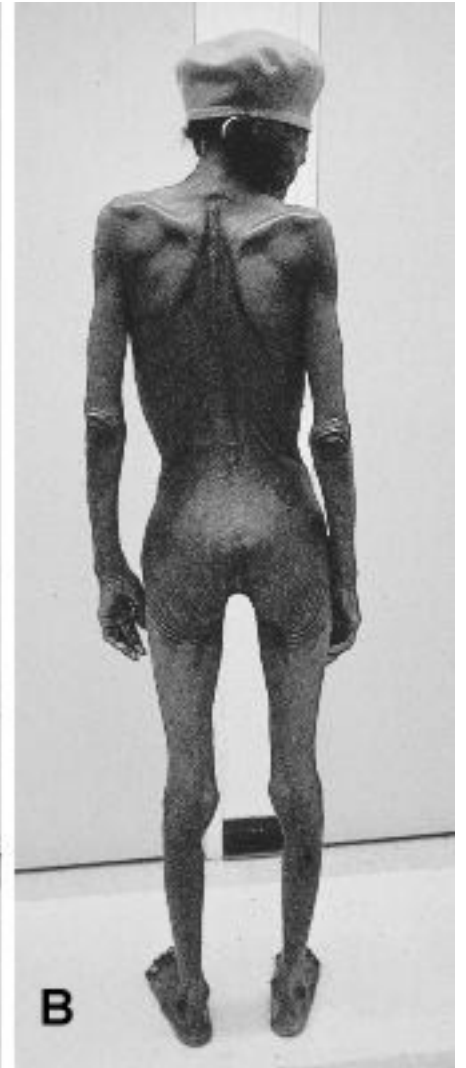
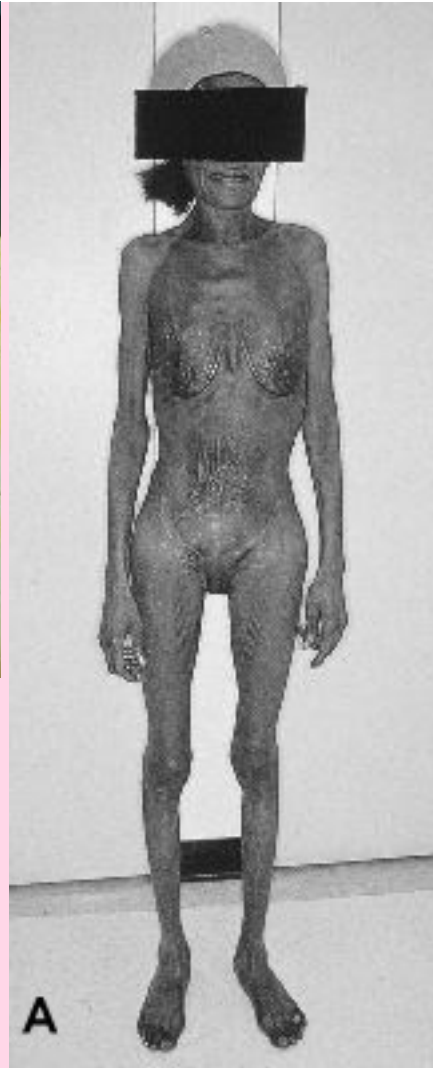


kwashiorkor

Which enzyme initiates the break
down fats in the mouth?

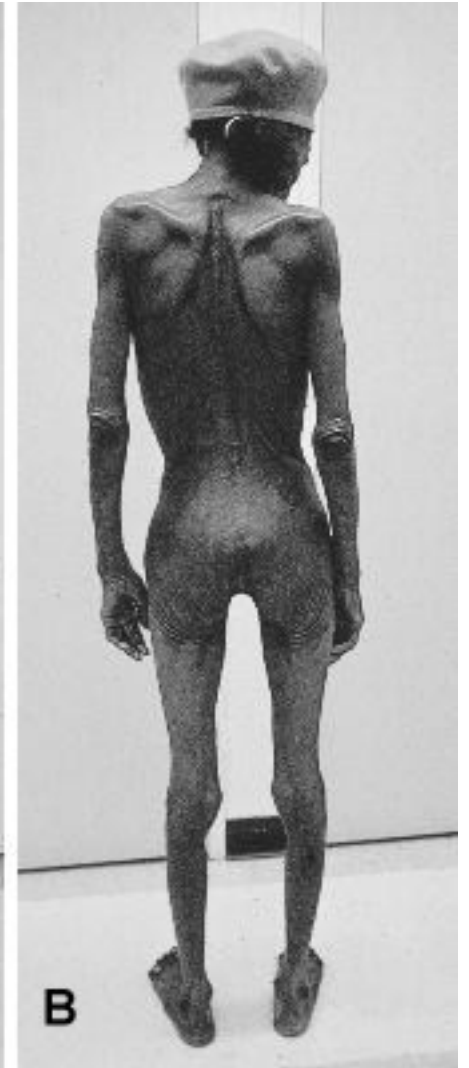
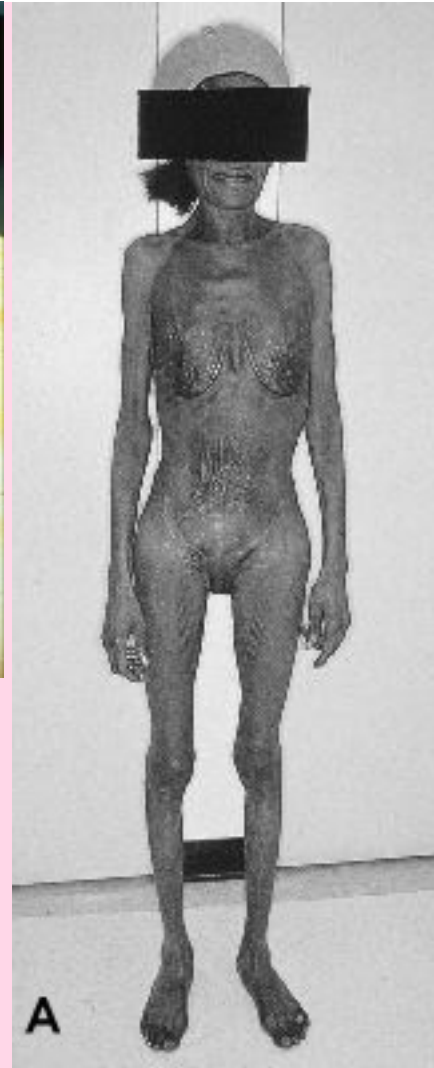
Which enzyme initiates the break down of fats in the mouth?

Lingual Lipase





Cachexia



In terms of Redox Equations, define an oxidized substance?

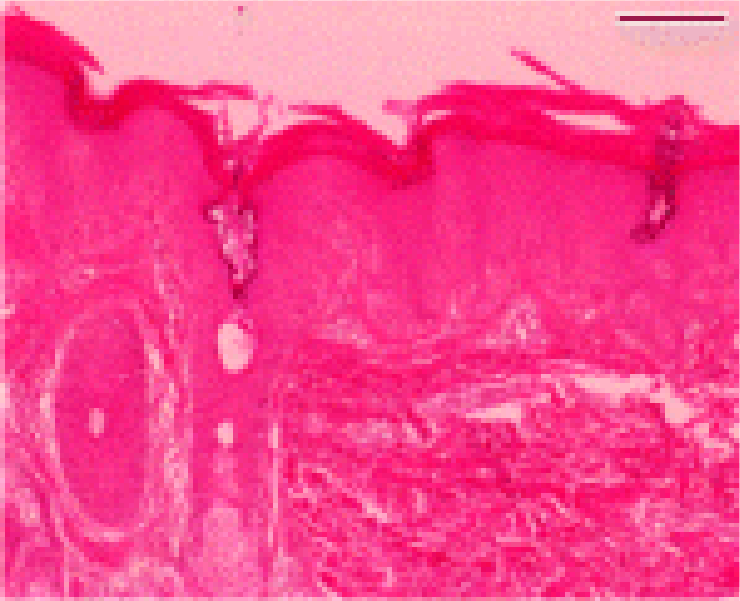
In terms of Redox Equations, define an oxidized substance?

Oxidized substances lose electrons and energy.

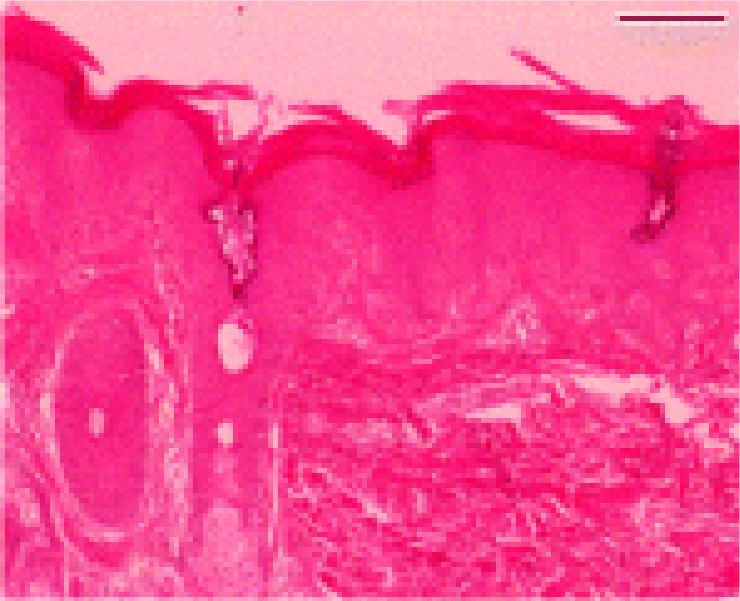
Define glyconeogenesis?

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Glucose formation from noncarbohydrate (glycerol and amino acid) molecules.



Follicular hyperkeratosis is a disease caused by what deficiency?



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Vitamin A

What are the three primary steps of glycolysis?

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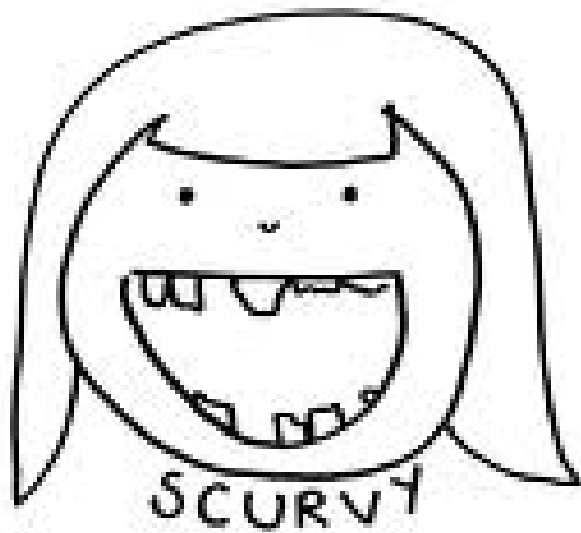
- 1) Sugar Activation
- 2) sugar cleavage
- 3) sugar oxidation/ATP formation.

What tissue secretes leptin and what is leptin's function?

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Leptin is secreted by adipose cells and is an indicator of the body's total energy stores in fat tissue.





Vitamin C defiant



Define the condition called pica?

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Eating and craving abnormal nutrients such as clay, cornstarch or dirt.



EyeRounds.org



Vitamin A deficiency

keratomalacia



EyeRounds.org

URINARY

The kidneys are intraperitoneal or retroperitoneal?

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Retroperitoneal

What are the three layers of the supportive tissue surrounding the kidneys?

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Renal fascia

Perirenal fat capsule

Fibrous capsule

What is pyelonephritis?

What is pyelonephritis?

Infection of the entire kidney

Where is angiotensin I converted to angiotensin II and by what cells?

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The lungs and the cell is called an angiotensin-converting enzyme.

What causes urine to be yellow?

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Urochrome

What are the two types of epithelium found in the urethra?

What are the two types of epithelium found in the urethra?

Pseudostratified columnar epithelium

Transitional epithelium