

100 Biochemistry Exam 1 Questions with correct answers

Which of the following is found in RNA but not DNA

- A) Uracil
- B) Guanine
- C) Deoxyribose
- D) Phosphate
- E) Adenine >>>> **Uracil**

Which of the following amino acids exhibits significant ultraviolet absorption above 250 nm?

- A) Alanine
- B) Tyrosine
- C) Methionine
- D) Glycine
- E) All of the above >>>> **Tyrosine**

Collagen fibers have a high content of which amino acids?

- A) histidine, tyrosine, and proline
- B) proline, hydroxyproline, and tyrosine
- C) Alanine, phenalanine, and isoleucine
- D) Cysteine, Methionine, and Phenalanine
- E) Glycine, proline, and hydroxyproline >>>> **glycine, proline and hydroxylproline**

At neutral pH (7)

- A) the carboxyl group exists as $-COOH$, and the amino group exists as $-NH_3^+$
- B) the carboxyl group exists as $-COO^-$, and the amino group exists as $-NH_3^+$
- C) the carboxyl group exists as $-COO^-$, and the amino group exists as $-NH_2$
- D) the carboxyl group exists as $-COOH$, and the amino group exists as $-NH_2$
- E) None of the above >>>> **the carboxyl group exists as $-COO^-$, and the amino group exists as $-NH_3^+$**

The basic structural unit of collagen, tropocollagen, has the following structure:

- A) triple stranded extended helix
- B) Beta-pleated sheet
- C) Right handed alpha-helix
- D) Left handed alpha helix
- E) A mix of alpha helicies and beta pleated sheets >>>> **triple stranded helix**

Which of the following amino acids has the largest tendency to destabilize alpha helicies?

- A) Arginine
- B) Proline

Biochemistry Review Questions Answers

A Loxley



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