Human Genetics:
Problem Set VIII

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Abstract

This work contains the solutions to the problem set VIII of Human Genetics 2015 course at New York University.

Question 1.

Solution.

Question 2.

Solution. **(a)** 5'-CACUAA... $\rightarrow$ 5'-CACUAG... would produce a nonsense mutation, as the UAA base changed to UAG, making amino acid change to STOP.

(b) 5'-CAC... $\rightarrow$ 5'-CAU... would produce a silent mutation, as the CAC base and CAU base have the same amino acid, His.

(c) 5'-CAC... $\rightarrow$ 5'-CCC would produce a missense mutation, as the amino acid changes from His to Pro. $\qquad\square$

Question 3.

Solution.