CH1010 Tutorial 9

1. Provide the **codons** in the **DNA template** and **mRNA** transcribed from it for the following decapeptide: YNLIGAACPH

- 2. List **3 different types of mutations** and illustrate the mutations using base codes based on the nucleotide fragment from a DNA coding strand: ACTAAAAGTGTT
 - How would these mutations be fixed genetically?

3.	PCR methods are widely used in molecular biology and DNA fingerprinting. Describe how PCR may be used in DNA fingerprinting if there is very little DNA available.
	• You will need to use your book and WEB and other resources to answer this question fully.
4.	Why are Okazaki fragments required during DNA replication ? Explain how they are involved in the synthesis of a new DNA chain.