CH1010 Tutorial 9

Name:

- 1. Provide the **codons** in the **DNA template** and **mRNA** transcribed from it for the following decapeptide: VHCIGAKAPN
 - Make sure that you include a start codon and a stop codon.

2. Illustrate what effect the following mutations would have on the **transcribed peptide**:

ATGACTAAAAGTGTT DNA coding strand

ATGACCAACAGTGTT DNA coding strand, point mutations to C

ATGGACTAAAAGTGTT DNA coding strand, insertion mutation, inserting G

• What **physico-chemical factors** produce mutations?

3.	Explain why PCR methods are an example of cloning and how the PCR method works.
4.	DNA replication is a semi-conservative, semi-discontinuous process – what does this mean? In your answer go over the major steps in replication and indicate where the process is semi-discontinuous.