Sylhet Women’s Medical College

**Department of Biochemistry**

Supplementary Card Completion on

“Molecular Biology & Genetics”

SWMC-8, SAQ

Full Marks: 50 Time: 1.30 min Date: 20.04.2014

(Answer any ten (10) questions. Each questions carry equal marks)

1. Draw and label the structure of DNA according to the Watson –Crick Model. What are the functions of nucleotides?
2. Define replication. What are the requirements of replication? Write the functions of DNA polymerase.
3. Define transcription. What are the post transcriptional modifications? .
4. What are the types of DNA damage? How it is repaired?
5. Define PCR. Write the steps of PCR. Why PCR is better then cloning?
6. Define Codon and anti codon. What is the genetic code? What are the characteristic of genetic code?
7. Define mutation. Mention the types of mutation. Give the consequences of mutation.
8. Define Translation.What are the requirements of translation?
9. How DNA is organized in chromosome? What is central dogma of life?
10. Define Genome. Genotype, Phenotype, Allele, locus.
11. Write short notes on: (i) DNA library. (ii) RFLP