

National Institute of Open Schooling
Senior Secondary -Biology
Lesson 23: Molecular Inheritance and Gene Expression
Worksheet -23

1. Define term codon. Mention any two functions of AUG codon.
2. Explain the process of translation specify different steps involved in it.
3. Which mechanism of gene regulation function after mRNA transcription but before translation of mRNA into protein
4. Differentiate between
 - i. DNA and RNA
5. Mention the different steps involved in DNA replication .Explain it with the labeled diagram of DNA.
6. List two essential roles of Ribosomes during translation.
7. Name the three major types of mRNA specifying the function of each in the synthesis of protein.
8. How will you examine the base pairing patterns of DNA
9. Write notes on :
 - a) Central Dogma
 - b) Okazaki fragments
 - c) Mutation
10. How the lac operon gets switched on in the presence of lactose in *E.coli*.