

Biology 12 Module 2

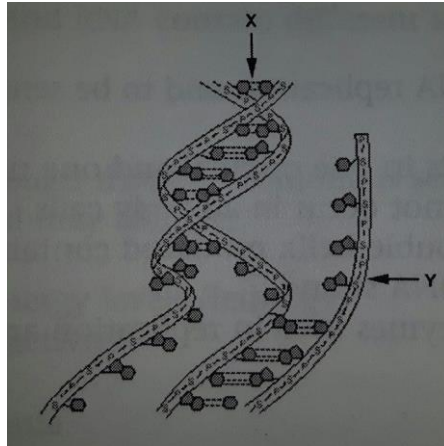
Study Guide

Part A Multiple Choice 23 marks

- Be able to write DNA, RNA, mRNA and tRNA sequences
- What carries amino acids to the ribosome?
- A polysome consists of what?
- What causes an enzyme to lose its three dimensional shape?
- An enzyme that has lost its shape is called what?
- What model describes enzymatic action?
- Difference between DNA and RNA
- Why are bacteria commonly used as vector to produce recombinant DNA?
- Terms to know/understand:
 - Hydrolysis
 - Translation
 - Replication
 - transcription
 - denaturation
 - recombinant DNA
 - semiconservative

Part B Short Answer 25 marks

1. Describe three ways in which molecule X differs from molecule Y.



2. Describe the molecular structure of DNA
3. Be able to explain what occurs during the translation of a gene if a section of DNA underwent a mutation
4. Choose ONE of the following processes: replication OR transcription
 - a. Describe two ways in which enzymes are used during the process you have chosen.