



**INDIAN SCHOOL MUSCAT**  
**SENIOR SECTION**  
**DEPARTMENT OF CHEMISTRY**  
**CLASS XII**  
**CHAPTER – BIOMOLECULES**  
**WORKSHEET - 10**



1. What are the three types of RNA molecules which perform different functions?
2. Name the products of hydrolysis of lactose.
3. What is denaturation of protein?
4. Write the important structural difference between DNA and RNA. Of the two bases, thymine and uracil, which one is present in DNA?
5. Name the products obtained on reaction of glucose with  
a) HI      b)  $\text{HNO}_3$
6. State what you understand by primary structure and secondary structure of proteins.
7. What are essential and non-essential amino acids? Give one example of each type.
8. Differentiate between
  - a) Amylose and amylopectin
  - b) Fibrous and globular proteins
  - c) Nucleoside and nucleotide
9. Name a disease that is caused due to the deficiency of the following vitamins:  
a) Thiamine (b) Riboflavin (c) D
10. The two strands in DNA are not identical but are complementary. Explain.
11.
  - a) What is glycogen? How is it different from starch?
  - b) How is starch structurally different from cellulose?
  - c) Explain what is meant by the following:  
  
Peptide linkage and Pyranose structure of glucose

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