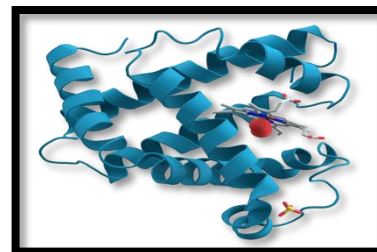
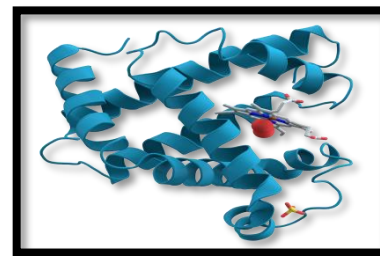


National Institute of Open Schooling
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Chapter- 29 (Biomolecules)
Worksheet-29



1. DNA and RNA are the two important nucleic acids present in our body. They are very important in our life. Study of DNA is very useful in investigation of criminal cases and finding. In what ways study of DNA is useful to us? Explain.
2. On medical checkup Raam got to know that his vision is getting poor slowly. As soon his younger brother came to know the fact he rushed to the market to bring some mangoes, carrot and papaya, Why Raam doing this? Give your suggestions.
3. In our diet we include good amount of plant products rich in cellulose but such diet is not nourishing. Explain the value you have learned about biomolecules.
4. Glucose or sucrose are soluble in water but cyclohexane and benzene (simple six membered ring compounds) are insoluble in water Explain.
5. When RNA is hydrolysed, there is no relationship among the quantities of different bases obtained. What does this fact suggest about the structure of RNA?
6. Classify the following into monosaccharides and disaccharides. Ribose, 2-deoxyribose, maltose, galactose, fructose and lactose.
7. What do you understand by the term glycosidic linkage?
8. What happens when D-glucose is treated with . the following reagents.
 - (i) HI
 - (ii) Bromine water
 - (iii) HNO₃
9. Define the following as related to proteins:
 - (i) Peptide linkage

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(ii) Primary structure

(iii) Denaturation

10. Enumerate the reactions of D-glucose which cannot be explained with open chain structure.



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