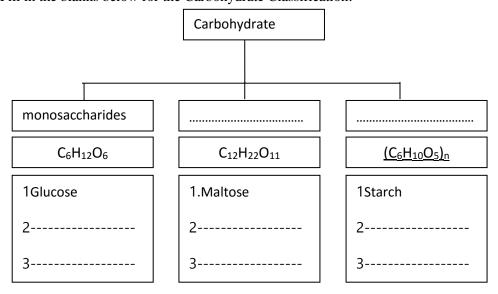


The chemical basis of life

- 01. What is the number of elements present in living organisms?
- 02. Name the **four** most abundant elements in living matter.
- 03. Compounds containing the element carbon are organic compounds
 Name two compounds that are not considered as organic compounds even though they contain carbon.
- 04. Name 04 basic organic compounds contained in living matter.
- 05. Name two inorganic compounds commonly found in living matter.
- 06. Write the general molecular formula of carbohydrates.
- 07. Fill in the blanks below for the Carbohydrate Classification.



08. Write two properties of monosaccharides.

09.Write down the swee	etest and least sweet mond	osaccharides, respectively
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10. Complete the following note regarding the production of disaccharides.

- 11. Write down the foods that contain maltose and sucrose each.
- 12. Write two special properties of polysaccharides.
- 13. Name the carbohydrates that are stored in the body of animals.
- 14. Write down the 04 important facts of carbohydrates.
- 15. Complete the table that includes the following activities.

Activity	Observation
1. Starch test Add a little water to the rice and crush together Then add them into a test tube. And put few drops of iodine solution.	
2. Glucose detection	Blue GreenYellowOrange Brick red receiving precipitation.
3.Sugar solution Add a few drops and heat Add Benedict solution	

16. In addition to carbohydrates and lipids, name two elements present in proteins.

17. Name two plant foods that contain protein.

18. R What is this structure?

- 19. Write the name of the protein detection test and describe the test.
- 20. What are enzymes?
- 21. When little iodine was added twenty minutes after adding the amylase enzyme to an aqueous bread flour solution, it did not turn blue. What is the reason for it?
- 22. Fill in the blanks below.

- 23. Describe how lipids maintain water conservation and body temperature.
- 24. What are the elements contained in nucleic acids?
- 25. Draw a structure of a nucleotide and name the parts of it.
- 26. Write the five important facts of nucleic acids.
- 27. Fill in the blanks in the table below.

Nucleic acid	structural unit	function
DNA		
RNA		

- 28. Describe a test to show that water contains in food.
- 29. Write down four unique properties of water.
- 30. Describes how the asymmetric expansion of water is important to living organisms.
- 31. Describe how the solvent property of water is important for the living organisms.