

**School of Tomorrow**  
**Addis Ababa**  
**Biology Review question #2**

1. Which of the following is the most abundant form of carbohydrate on earth?  
A. Starch    B. Cellulose    C. Glycogen    D. Chitin
2. In which of their constituents do the nucleotides of DNA and RNA differ from each other?  
A. In the purine bases    C. In the phosphate group  
B. In the pyrimidine bases    D. In all of the above
3. Which one of the following elements is found in protein and nucleic acids but does not occur in carbohydrates?  
A. Carbon    B. Nitrogen    C. Oxygen    D. Hydrogen
4. Which of the following molecules is known as the energy currency of the cell?  
A. Glucose    B. Starch    C. Fat    D. ATP
5. What is the stored form of sugar that is found human tissues?  
A. Cellulose    B. Coenzyme    C. Nucleic acid    D. Glycogen
6. Which of the following classes of crops is a good source of proteins?  
A. Leafy vegetables    B. Cereals    C. Pulses    D. Roots and tubers
7. What makes phospholipid molecules arrange themselves into a bilayer in a water medium?  
A. The double bonds of the fatty acids  
B. The presence of hydrophilic and hydrophobic groups  
C. The length of the fatty acids  
D. Their high solubility in water
8. Which of the following is a polysaccharide?  
A. Sucrose    B. Glucose    C. Cellulose    D. Fructose
9. Choose the alternative that shows the monomer and polymer of carbohydrates?  
A. Nucleotide, amino acid    C. Monosaccharide, polysaccharide  
B. Polypeptide, polynucleotide    D. Nucleic acid amino acid
10. Which of the following is the most abundant polysaccharide found in plants?  
A. Glycogen    B. Cellulose    C. Sucrose    D. Starch
11. What term is used to describe the chemical process of living organisms that involves both the joining up of monomers to produce polymers and the splitting of polymers to monomers?  
A. Anabolism    B. Metabolism    C. Catabolism    D. Polymorphism
12. Which alternative correctly matches the polymer with its monomer?  
A. Carbohydrate- amino acid    C. Nucleic acid - nucleotide  
B. Protein - monosaccharide    D. Lipid - fat
13. All of the following carbohydrates are polysaccharides except which?  
A. Glucose    B. Cellulose    C. Starch    D. Glycogen



27. If one mixes a sample of a fruit juice and some drops of Benedict's solution and obtains a brick-red precipitate upon warming the mixture, what does the juice contain?
- A. Starch                      B. Reducing sugar                      C. Sucrose                      D. Protein
28. The main component of the plant cell wall is \_\_\_\_\_?
- A. Starch                      B. Cellulose                      C. Protein                      D. Chitin
29. How many carbon atoms are there in one disaccharide molecule?
- A. 6                      B. 12                      C. 18                      D. 24
30. All proteins contain carbon, hydrogen, oxygen and what other element?
- A. Chlorine                      B. Flourine                      C. Nitrogen                      D. Sulphur