

Understanding Biology Better

Way of Studying Unit-I

Fill the following tables, with help of notes and slides shared with you (Let it become lengthy, write the way you understand. Tables to be made on paper, by hand. Refer to them regularly. Draw structures and Diagrams wherever necessary).

1. Biomolecules

Biopolymers-	Carbohydrate	Proteins	Nucleic Acids	Lipids
Classification (types)				
Examples				
Functions				
Monomers				
Common structures of Monomers				
Types of monomers				
Properties of Monomers				
Interactions with water				
organization of polymers from monomers				
Biological role/process involved				

2. Cellular organization

Characteristic	Prokaryotic Cell	Eukaryotic Cell
Nucleus		
Type of DNA		
Types of Ribosomes		
Endoplasmic Reticulum, Golgi complex, Lysosomes		
Cell wall		
Capsule		
Ways of transport within cell		
Plasma membrane		
Mitochondria (history of evolution)		
Plastids (history of evolution)		

[I request all of you to complete this exercise as thoroughly as you can. Note that SLS is not a course to be studied at the end of Semester. Regular intermittent exercises are going to make it manageable for you.]