

## Study Questions

### Components of Blood

1. What are the cellular and liquid components of Blood?
2. What kinds of glycans do they carry?
3. Name some examples of roles of glycans on blood components

### Chapter 14: Sialic Acids

1. Unlike the case in other tissues, sialic acids cap almost all sugar chains. Why?
2. What major roles do they play?
3. What happens if you remove them?

### Chapter 31: C-type Lectins (Selectins only)

1. Name the selectins and their major functions
2. Some [C-type lectins](#), notably the selectins, bind with higher affinity to some glycoproteins than to others on the same cell, even though several glycoproteins may display similar [glycan](#) structures. Consider mechanisms that might confer such preferential binding.
3. Compare the interaction of P-[selectin](#) with PSGL-1 to the binding of a plant [lectin](#) to PSGL-1.

### Chapter 35: Proteins that Bind Sulfated Glycosaminoglycans (heparin only)

1. The extent of modification of [heparin](#) is much greater than that of [heparan sulfate](#). How does this affect the anticoagulant action of heparin?
2. What other effects would heparin have in the bloodstream?