Complement Cascade Activity

Directions: Use the textbook and the internet resources to fill in the lettered spaces (labeled A-U) with the correct name or piece of the complement cascade. Finally, enter your answers in the Complement Activity Quiz on Canvas.
Complement Textbook Questions

1. The most abundant complement protein in plasma is _______ and it plays a central role in all 3 complement pathways.

2. Why is the complement system effective against microbes but does not react against host cells & tissues?

3. How is the alternative pathway triggered? Does it need antibodies for activation?

4. How is the classical pathway triggered? Does it need antibodies for activation?

5. How is the lectin pathway triggered? Does it need antibodies for activation?

6. What is the end result of the early steps of complement activation?

7. What happens in the late steps of complement activation? What does the membrane attack complex do?

8. __________ is probably the most important function of complement in defense against microbes.

9. Deficiency of ____ results in profound susceptibility to _______ and is usually _____ in early life. Somewhat surprisingly, deficiencies of the _____ proteins of the _______ pathway, _____ and _____, do not cause immune deficiencies. The _____ and _____ pathways are not absolutely required for defense against infections.

10. Uncontrolled complement activation occurs on the erythrocytes of ______ ______ patients, leading to lysis of the erythrocytes.