QB1 – Quaternary Structure and Functional Proteins

1. Describe the quaternary structure of a protein.

2. Explain why not all proteins have a quaternary structure.

3. Why is it necessary for some proteins to have a quaternary structure?

4. What are the components of a conjugated protein? Give an example of a conjugated protein.

5. Explain the difference between a fibrous and a globular protein.

6. The diagram below shows an example of an insulin protein. With reference to this, define the following:
   - Primary Structure:
   - Secondary Structure:
   - Tertiary Structure:
   - Quaternary Structure:
   - Prosthetic Group:

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