Synapses

Watch the you tube clip on Synapse; https://www.youtube.com/watch?v=VitFvNvRIIY
What is a Synapse, describe its function and draw a labelled diagram of the Synapses
Describe the three factors of the speed of action potential in humans.
The eight step by step chemical transmission across the synapse:
 The a p arrives at the synaptic bulb The Calcium channels open in the presynaptic membrane, as a result calcium ions diffuse into the n m down a concentration gradient. As calcium concentration increases, the s v containing n move towards the p membrane. The V fuse with the m and release the chemicals into the s cleft.
5. N diffuse across the synaptic cleft, this is known as the synaptic delay because it is slower than an e s travels.
6. The n binds to the p cell membrane receptor sites on the sodium channels.
7. Some neurotransmitters open s ch in the membrane causing s ions to pass in. This creates ESP excitatory postsynaptic potential and makes the membrane receptive to the s coming in. It this reaches the threshold, a p is generated.
8. The n will excite the cell and, once it has acted on the m, enzymes act on the neurotransmitter to break them down.