What effect would each of these drugs have on the firing rate of the postsynaptic neuron? Explain your answer. Annotate the diagrams if it helps you to work it out.

This is an inhibitory synapse. Drug A blocks the reuptake mechanism for the neurotransmitter released by the presynaptic neuron.
This is an excitatory synapse. Drug B binds to the postsynaptic receptors for the neurotransmitter released by the presynaptic neuron but does not stimulate them.
This is an inhibitory synapse. Drug C binds to the postsynaptic receptors for the neurotransmitter released by the presynaptic neuron and stimulates them.
This is an excitatory synapse. Drug D blocks the reuptake mechanism for the neurotransmitter released by the presynaptic neuron.