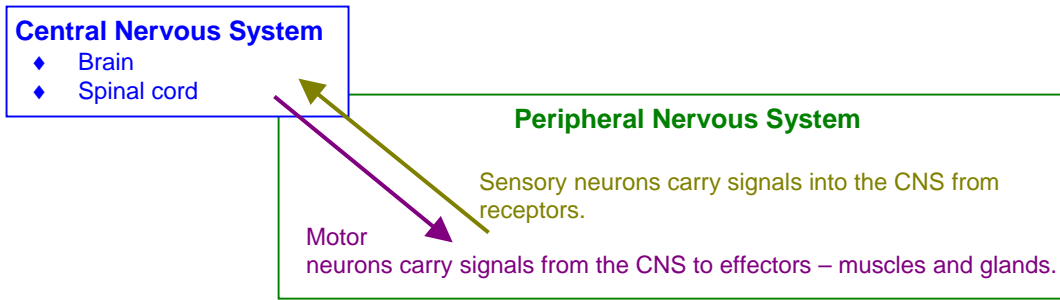
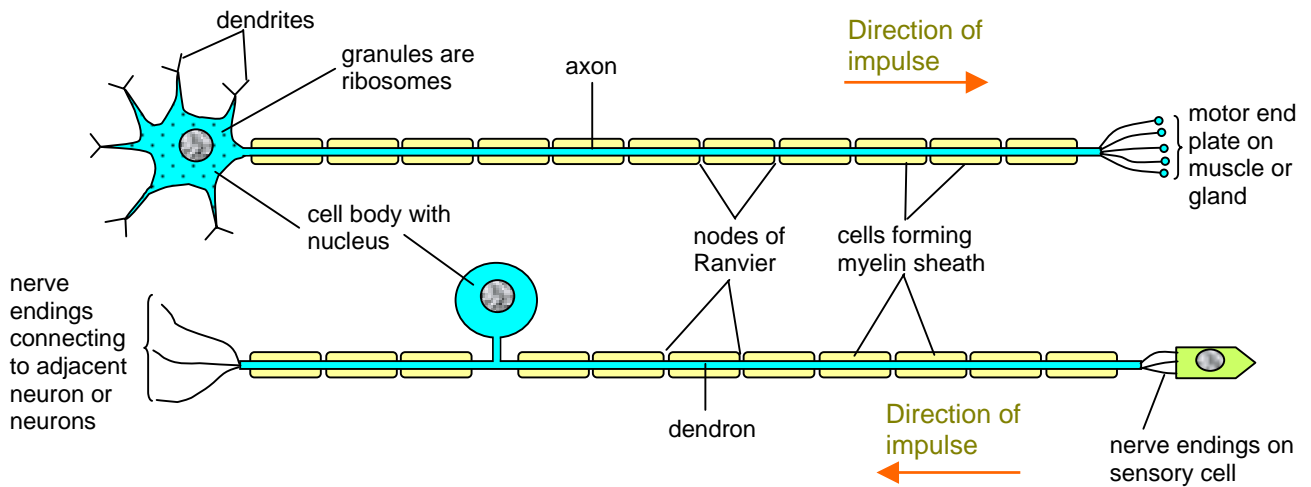


## ❖ Co-ordination of Muscle Activity

### Organisation of the Nervous System

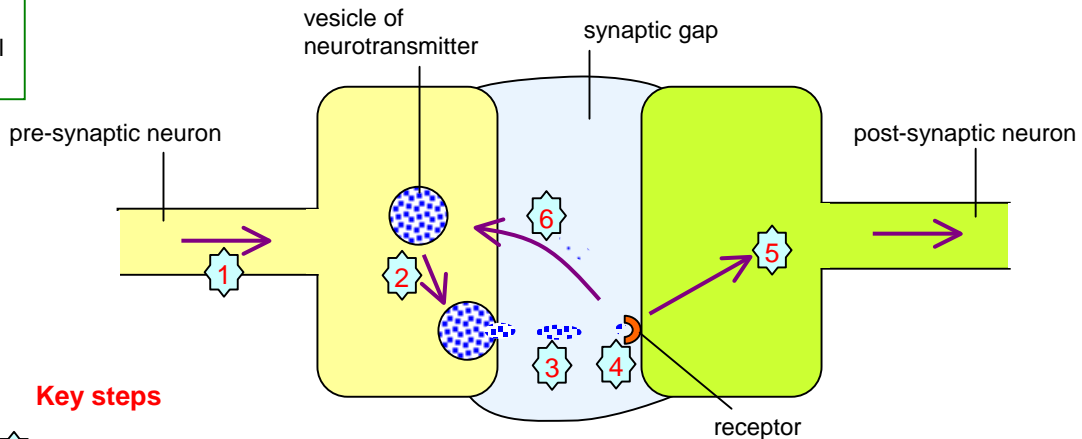


### Structure of Motor and Sensory Neurons



### Synaptic Transmission

Most synapses are in the central nervous system.



#### Key steps

- 1 Nerve impulse arrives at synapse;
- 2 This causes vesicles of neurotransmitter to join onto the pre-synaptic membrane;
- 3 Neurotransmitter diffuses across fluid filled synaptic gap;
- 4 Neurotransmitter binds to receptor on post-synaptic membrane;
- 5 This triggers a nerve impulse in the post-synaptic neuron;
- 6 Neurotransmitter broken down and reabsorbed back through pre-synaptic membrane to be re-synthesised into new vesicles.