

15 The nerve impulse – Part 2 — Answers

Answers

Work through these after trying the questions yourself.

15.6 Negative.

15.7 Sodium (Na^+).

15.8 About +40 mV.

15.9 The myelin sheath.

15.10 Saltatory conduction.

15.11 In a myelinated neurone the impulse cannot pass through the fatty sheath, so it *jumps* from one gap (node) to the next — saltatory conduction. Because it skips the lengths in between instead of moving smoothly along the whole axon, it travels much faster.