

1 Neurons, neurotransmitters, and the divided nervous system – Part 1 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 a neuron either fires at full strength or does not fire at all; reaching the threshold produces the same size of signal whatever the stimulus.

2.2 by the *rate* of firing - a stronger stimulus makes the neuron fire more often per second, not more strongly.

2.3 reuptake.

2.4 more neurotransmitter stays in the synapse for longer, so the next neuron continues to be stimulated.

2.5 sympathetic - prepares the body for action (heart faster, pupils wider); parasympathetic - restores the resting state.

2.6 both are active at once, and the body's state is set by which is currently dominant rather than by one being off. \