**Review Worksheet: Synapses and Neurotransmitters** Name: …………………………………………………

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*Do these questions, using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, correct it, and fill in the reflection section. Questions marked \* require you to use reasoning, inferring and application of knowledge, or perhaps extra research to get the answer. It won’t be right there in the text.*

1: What are neurotransmitters?

(3 marks)

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2: List two common neurotransmitters

(2 marks)

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3: What is stored in the vesicles at the axon terminals?

(1 mark)

*……………………………………………………………*

4: a) What ion stimulates the movement of vesicles to the pre-synaptic membrane and the release

of their contents?

(1 mark)

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b) What process occurs to make the ion enter the axon terminal?

(4 marks)

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5: How does the neurotransmitter (NT) move across the synaptic cleft?

(1 mark)

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6: What does the neurotransmitter do when it reaches the post-synaptic membrane, and what is the result?

(6 marks)

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7: What happens to the neurotransmitter after the process is finished?

(2 marks)

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8: a) When an inhibitory neurotransmitter binds to the post-synaptic receptors, what happens?

(6 marks)

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b) What does this mean for the speed of transmission?

(1 mark)

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9: List two similarities and two differences between a synapse and a neuromuscular junction

(4 marks)

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10: Snail bait contains an organophosphate that prevents breakdown of Acetylcholine at the neuromuscular junction. What symptoms would you expect a dog that has eaten snail bait to exhibit, based on this information, and why?\*

(4 marks)

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Go back and mark your work using the marking key provided. What score did you get? /35

*I included enough detail in my answers.*



*I was able to find information in the text/powerpoint presentation.*

*I was able to reason and infer where the information wasn’t directly in the text (questions with \*).*

*I marked my work and wrote down any answers where I missed marks.*