

(3 pts.) The \_\_\_\_\_ is the “output” area of the amygdala because it connects to other brain regions which directly control emotional reactions. Some of these connections include the \_\_\_\_\_ which controls reflexes such as orienting responses and the \_\_\_\_\_ which is involved in cortical attention and arousal. (Note: You must give the complete name for full credit, not just the abbreviation).

(3 pts) The output area of the amygdala also connects to the \_\_\_\_\_ which is involved in freezing behaviors. Two specific examples of freezing behaviors are \_\_\_\_\_ and \_\_\_\_\_.

(2 pts.) According to the attribute model, \_\_\_\_\_ is the brain structure responsible for egocentric memory while the \_\_\_\_\_ is the brain structure responsible for allocentric spatial memory.

(2 pts.) True or False: The dorsomedial nucleus of the hypothalamus is responsible for female-specific sexual behaviors.

(2 pts.) True or False: Valium inhibits responses to emotional stimuli by activating glutamate receptors.

(2 pts.) True or False: Intersex individuals are more common than hermaphrodites.

(2 pts.) True or False: Estrogen may increase the number of new neurons in the hippocampus of female rats.

(2 pts.) True or False: Estrogen, but not testosterone has been implicated in learning and memory functions.

(2 pts.) \_\_\_\_\_ is the area of the anterior hypothalamus that might explain gender differences and sexual orientation differences in humans due to the fact that it is larger in heterosexual males than in heterosexual women and homosexual males.

( 3 pts.) In MALE animals, the \_\_\_\_\_ is thought to be the analogous to the structure mentioned in the previous question. Two pieces of evidence to show that this structure is involved in male sexual behavior in animals are:

1.

2.

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Essay (6 pts): In lecture, we discussed whether males and females perform better or worse on certain types of tasks. In general, males perform better on \_\_\_\_\_ tasks and females perform better on \_\_\_\_\_ tasks. List four pieces of evidence that support these conclusions (two for each gender - *yeah! for gender equality!*). Describe three theories to account for these gender differences.

Essay: (4 pts) While I was away in sunny San Diego at a conference, you watched a video talking about “imposter syndrome”. BRIEFLY describe two concrete examples of the behavior of the patient in this clip.

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Essay (4 pts) Describe someone who suffers from androgen insensitivity (and don't anyone think about attaching photos of me to this question!). What causes this to occur?

Essay (4 pts.) Describe two of the current recommended guidelines discussed in class regarding intersex individuals. What is the rationale behind these guidelines and what is your opinion on the recommendations?