

Name: \_\_\_\_\_

## Physiology: Neurotransmitters and the Brain Worksheet

**Directions: Write in and circle best answer on this sheet.**

13. The **amygdala** is part of the \_\_\_\_\_ system. An important role of the amygdala is recognition of facial expressions that elicit \_\_\_\_\_, but also more pleasant emotions. Stimulation of the body by the amygdala results in the release of at least **4** NT's (see **OER** Text, Ch 9, page 188), including:

14. Cranial nerves (like the trochlear, or trigeminal nerves) belong to what aspect of the nervous system?

- a) Spinal nervous system
- b) Peripheral nervous system
- c) Central nervous system

15. If the \_\_\_\_\_ of the brain were damaged, a person could have problems maintaining proper blood pressure levels, may have trouble swallowing and sneezing.

16. List the 3 **vital centers** in the brain. What are their specific functions, and where they are in the brain?

- 1)
- 2)
- 3)

17. The **midbrain** includes a structure that has "4 bodies", called the \_\_\_\_\_.

18. The upper two bodies in Q 17 are the \_\_\_\_\_ & are for \_\_\_\_\_.

19. The bottom two bodies in Q 17 are the \_\_\_\_\_ & are for \_\_\_\_\_.

20. Using the **OER** Text (**Ch 9**, from p200-203), briefly describe the functions of the following **nuclei** that are located in the Hypothalamus.

*Specific details of nuclei are not asked on exams, this is just to illustrate the functions of these areas.*

1) Mammillary body:

2) Suprachiasmatic nucleus:

3) Arcuate nucleus:

4) Ventromedial nucleus:

5) Lateral nucleus: