

## VERMONT BRAIN BEE – PREP - SAMPLE WRITTEN QUESTIONS

1. The hippocampus is involved in what function?
2. To the closest pound, how much does the average adult human brain weigh?
3. Neurotransmitters are stored in what cellular structures?
4. The loss of dopamine in the basal ganglia is an important factor in what neurological disease?
5. In what stage of non-REM sleep are the brain waves the slowest and largest?
6. What does epinephrine do to blood pressure?
7. The striate cortex processes what kind of sensory information?
8. The somatic nervous system innervates what type of muscle?
9. To which of the special senses does the human brain devote the most space?
10. Where in the brain is most knowledge about facts and events stored?
11. The amygdala is associated with what type of memory?
12. Multiple sclerosis is an autoimmune disease in which the body's natural defenses attack what substance in the central nervous system?

### Answers:

1) memory, 2) 3 pounds, 3) synaptic vesicles, 4) Parkinson's disease, 5) stage 4, 6) increases bp, 7) vision, 8) skeletal muscle, 9) visual information, 10) cerebral cortex, 11) emotional memory, 12) myelin