Basic Brain Structure and Function

Across
1. The _____________ helps to refine movement so it isn’t clumsy or erratic (2 words)
2. Substance that reduces the weight of the brain, supplies nutrients, transports hormones and prevents head injury (3 word)
3. The ___________ functions to control autonomic, emotional, and sexual behavior (regulates visceral motor activity)
4. The ___________ is associated with mood, appetite, vomiting, limbic system functions, pain and sleep. The drug Prozac mimics this
5. The ___________ functions to control autonomic, emotional, and sexual behavior (regulates visceral motor activity)
6. The brain is divided into two ___________
7. The ___________ side of the cerebrum specializes in language, calculation and ___________
8. Damage to the occipital lobes can cause ___________
9. The ___________ is a set of interconnected nuclei located throughout the brainstem and play a crucial role in maintaining behavioral arousal and consciousness (2 weeks)
10. The membrane that covers and protects the central nervous system, forms partitions, contains cerebral fluid, protects blood vessels and encloses the venus sinuses.
11. In development of the brain, the ___________ is responsible for the evolution of intelligence
12. An excitatory neurotransmitter that governs muscle contractions and is associated with memory formation and diseases like Alzheimer’s is ___________
13. Sensory information received from the outside world is processed; controls voluntary movement & regulates conscious thought & mental activity in the ___________
14. The ___________ nervous system is part of the involuntary nervous system that serves to slow the heart rate, increase intestinal and glandular activity, relax the sphincter muscles and allow a muscle to rest
15. Sensory information received from the outside world is processed; controls voluntary movement & regulates conscious thought & mental activity in the ___________ hemispheres
16. The ___________ nervous system serves to stimulate nervous system activity such as accelerating the heart rate, constricting blood vessels, raising the blood pressure, and facilitating a muscle contraction
17. The ___________ nerve, responsible for the control of lateral eye movement is the ___________ nerve
18. The ___________ cranial nerve which controls the trapezius and sternocleidomastoid and controls swallowing movement is the ___________ nerve
19. The ___________ side of the cerebrum specializes in language, calculation and ___________
20. Sensory information received from the outside world is processed; controls voluntary movement & regulates conscious thought & mental activity in the ___________
21. Superior, Straight or Cavernous _________
22. The lobe of the brain involved in planning a schedule, imagining the future or reasoning during an argument is the ___________ lobe
23. In the architecture of the brain there area three basic units based on location. That includes the upper spinal cord, brain stem and cerebellum is the ___________
24. A neuroendocrine associated with concentration, socializing, food-seeking, sexual desire and motor neuron control and associated with Parkinson’s, Alzheimer’s and Lewy Body dementia
25. The ___________ are chemical messengers in the nervous system
26. The outermost layer of the cerebral hemispheres are composed of ________matter

Down
1. The ___________ nerve serves to slow the heart rate, increase intestinal and glandular activity, relax the sphincter muscles and allows a muscle to rest
2. Substance that reduces the weight of the brain, supplies nutrients, transports hormones and prevents head injury (3 word)
3. The ___________ functions to control autonomic, emotional, and sexual behavior (regulates visceral motor activity)
4. The ___________ is associated with mood, appetite, vomiting, limbic system functions, pain and sleep. The drug Prozac mimics this
5. The ___________ is the regions of the embryonic vertebrate neural tube that gives rise to posterior forebrain structures
6. The parietal lobe is known as the primary ___________ area where activity such as accelerating the heart rate, constricting blood vessels, raising the ___________
7. The _________ side of the cerebrum specializes in language, calculation and sequential thought processes
8. Short term memories and converted to long-term memories in the ___________
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