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 ___________ 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
4. Sensory information received from the outside world is processed; controls pain and sleep. The drug Prozac mimics this ___________ process
5. The ________ is the regions of the embryonic vertebrate neural tube that gives rise to posterior forebrain structures
6. The ________ is the region where impulses related to temperature, pain, touch, taste, smell are interpreted
7. The ________ side of the cerebrum specializes in language, calculation, and sequential thought processes
8. Damage to the occipital lobes can cause ________
9. The ________ lobe 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 venous 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. 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
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15. 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
16. The ________ lobe is the region where impulses related to temperature, pain, touch, taste, smell are interpreted
17. Sensory information received from the outside world is processed; controls voluntary movement & regulates conscious thought & mental activity in the ________ hemispheres
18. The sixth cranial nerve, responsible for the control of lateral eye movement is the ________ nerve
19. The ___________ lobe is the region where impulses related to temperature, pain, touch, taste, smell are interpreted
20. Damage to the occipital lobes can cause ________
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. The upper spinal cord, brain stem and cerebellum is the ________
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27. The outermost layer of the cerebral hemispheres are composed of ________ matter
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Down
1. 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
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Name: _______________________________