Name: _____ Class: _____ Date: _____

Chapter 01: Essay

Essay

1. Differentiate between the central and peripheral nervous systems.
ANSWER:

2. Identify and explain the three main reasons for linking the study of the brain to the study of behavior.
ANSWER:

3. Define and explain the functions of the central nervous system and the peripheral nervous system.
ANSWER:

4. Explain and give an example of the concept of embodied behavior.
ANSWER:

5. What is the difference between a minimally conscious state (MCS) and a persistent vegetative state (PVS)?
ANSWER:

6. Define what Aristotle called the "psyche."
ANSWER:

7. What is dualism?
ANSWER:

8. Why was the pineal body important to Descartes?
ANSWER:

9. What is materialism, and how has it influenced the study of neuroscience?
ANSWER:

10. What did Darwin postulate about emotional expressions?
ANSWER:

11. What is epigenetics, and why is it an important topic to study?
ANSWER:

12. Define *common ancestor* and how this term relates to Darwin's theory of evolution.
ANSWER:

13. Define *taxonomy* and apply it to humans.
ANSWER:

14. What are the seven general steps in the evolution of the nervous system?
ANSWER:

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15. Describe the nervous systems of organisms such as sea anemones.
ANSWER:

16. Explain why brain folding occurs in large-brained mammals and the advantages of this characteristic.
ANSWER:

17. Differentiate between *Homo habilis* and *Homo erectus*.
ANSWER:

18. What is an encephalization quotient?
ANSWER:

19. Your friend says, "Of course elephants are smarter than dolphins: they have much bigger brains." Why is your friend's reasoning incorrect? What factors is he not taking into account to explain differences in brain size?
ANSWER:

20. How might climate changes have influenced the evolution of the human brain?
ANSWER:

21. How might the correlation Milton (2003) found in primates between fruit foraging and larger brains be explained in evolutionary terms?
ANSWER:

22. What is the radiator hypothesis? How does it explain the evolution of the human brain?
ANSWER:

23. Define *species-typical behavior*. How does this behavior influence our comparisons of intelligence across species?
ANSWER:

24. What are memes, and how do they influence our evolution?
ANSWER:

25. Describe the different reasons a person's brain might be smaller than average.
ANSWER:

26. Describe memes as identified by scientist Alex Mesoudi and describe their study within an evolutionary framework.
ANSWER: