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| **Essay** |

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

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

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

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

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

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| 6. Define what Aristotle called the "psyche."   |  |  | | --- | --- | | *ANSWER:* |  | |

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| 7. What is dualism?   |  |  | | --- | --- | | *ANSWER:* |  | |

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

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

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

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

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

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

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| 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:* |  | |

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

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

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| 18. What is an encephalization quotient?   |  |  | | --- | --- | | *ANSWER:* |  | |

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| 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:* |  | |

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

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

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

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

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

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

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