**Module 1: Introduction and History**

**If you believe that different personality traits map onto the bumps on your head, you would be a proponent of \_\_\_\_\_\_\_**



Scientology



Localization of function



Equipotentiality of function



neuroscience

**Which of the following disciplines would not likely contribute to research in the neurosciences?**



biology



chemistry



computer science



all of the above contribute

**Most biopsychologists believe we should think of the mind as \_\_\_\_\_**



An existential, non-material entity with no connection to the brain



A physical substrate which is independent of the brain



A collection of things that the brain does



A gelatinous mass of gobbledygook

**Localization of function means that \_\_\_\_**



specific brain functions are found in specific parts of the brain



the most sophisticated functions are located in the highest parts of the brain



any part of the brain can take over other functions after damage



brain functions are located in widespread networks

**A recent revelation about how the brain produces behavior is that \_\_\_\_\_\_\_**



connections between brain structures may be as important if not more important than the brain structures themselves



connections between brain structures is not as important as the brain structures themselves



the brain pretty much shuts down when we sleep to allow it to rejuvenate



it turns out the endocrine system (i.e. hormonal system) has a greater effect on behavior than the brain does

**What important contribution did Phineas Gage’s unfortunate story make to neuroscience?**



it convinced us that equipotentiality of function best describes how the brain works



it provided convincing evidence for localization of function



it showed us how remarkable our brains are



not much because it was anecdotal, but he did leave behind a real cool skull

**Historically, which of the following held back our understanding of the brain? Select all that apply.**



The church’s authority over the mind and body, even after death



Inadequate means to visualize cells



Inadequate funding for research



humans had not yet evolved to be smart enough to start figuring it out

**Biopsychology is best defined as \_\_\_\_\_**



the scientific study of behavior



the scientific study of the nervous system



the scientific study of the reciprocal interactions between behavior and biology



the scientific study of the reciprocal interactions between behavior, biology, and the environment

**Which of the following statements about the different subdisciplines of biopsychology is TRUE?**



there is much overlap among the separate subdisciplines



psychopharmacology is the most common and largest subdiscipline



physiological psychology uses non-invasive methods whereas psychophysiology uses invasive techniques



most of the subdisciplines focus on application and applied research

**Researchers investigating the diencephalon and how its response to stress has stayed the same for thousands of years are most likely working within which subdiscipline?**



behavioral genetics



comparative psychology



evolutionary psychology



historical biopsychology

**All of the following except \_\_\_\_\_\_\_\_\_\_ are myths that research in biopsychology has helped to dispel.**



we only use 10% of our brain



for some behaviors/functions, the left hemisphere may be specialized to execute those behaviors/functions. For other behaviors/functions, the opposite is true and right hemisphere dominates



vaccines cause autism



We only have 5 senses

**Which condition(s) did I say might explain the behavior of "witches" during the Salem witch trials? Select all that apply.**



need for attention and lack of self-esteem



ergot poisoning



arsenic poisoning



encephalitis



schizophrenia

**Which of the following theories or philosophies categorizes homeopathy? Select all that apply.**



Like cures like



Do no harm



law of minimal dose



mind over matter

**All of the following are exciting areas in neuroscience and show tremendous potential. However, one of them is currently NOT a reality. Which is it?**



nanotechnology



brain-computer interfaces



whole brain emulations



see through brains

**Chapter 17 discussed many innovative approaches to dealing with degenerative diseases like Alzheimer's and Parkinsons. Which of the following was repeatedly mentioned as a challenge or obstacle to overcome?**



establishing public trust in the technology



getting CDC approval



the patient's immune system rejecting the treatment



getting approval from animal research ethics committees