

Psych 4 exam#1



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The belief that there is no distinction between the physical brain and the mind represents the position known as materialistic monism. The most important contribution made by Descartes was suggesting a physical explanation of behavior.

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According to the hydraulic model of the nervous system, nerves were hollow tubes that allowed fluid "animal spirits" to flow through them. The 19th-century idea that over 35 different mental faculties were located in specific parts of the brain was called phrenology. In the mid-1800s, studies of brain-damaged patients convinced researchers that none of the above.

Which of the following is believed to have a genetic basis? All of the above.

John is heterozygous for brown eyes, and his son Brad is homozygous for brown eyes. Which of the following statements is TRUE? John and Brad have the same phenotype but different genotypes. Which of the following is NOT true of gene activity? Once genes become inactive (turned off), they remain inactive. Which of the following traits has the highest degree of heritability? Height.

The best way to think about the relationship among genetics, environment, and intelligence is that genetics sets the potential range and environment determines the actual capacity of intelligence. A theory is an explanation for specific observations about some phenomenon. A study that allows researchers to determine if a cause and effect relationship exists between two variables is called an experimental study. If researchers studying the nervous system want to find and identify cell bodies of neurons, they are MOST likely to use which of the following techniques? Nissl staining.

A stereotaxic instrument may be used to all of the above.

Which of the following brain imaging techniques involves the use of X-rays? CT.

Compared to monozygotic twins,

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dizygotic twins show _____ concordance rate for schizophrenia. a lower

Antisense RNA (gene-disabling) technology involves interfering with protein construction controlled by the gene

Regarding animal research guidelines, which of the following is FALSE? Procedures involving pain may not be performed on primates. The MAIN advantage of fMRI brain imaging technique compared with MRI is that it provides both an anatomical and functional view of the brain. The biggest obstacle to using stem cells in medical research would be eliminated if researchers could get none of the above

A neuron that transmits information between the central nervous system and a muscle is called a motor neuron

Which of the following is TRUE regarding the action potentials generated by a neuron? They are always the same strength. In myelinated axons, action potentials occur only at the gaps in the myelin sheath called the nodes of Ranvier. Glial cells have been shown to perform all of the following functions EXCEPT transmitting action potentials

Temporal summation of inhibitory postsynaptic potentials (IPSPs) causes the membrane interior of the postsynaptic neuron to become more negative

In an artificial neural network, MOST of the processing occurs in which layer of neurons? hidden

The prefrontal cortex is involved in all of the following functions EXCEPT body positioning and movement

The somatosensory cortex is located in the _____ lobe. parietal

Which of the following statements regarding the corpus callosum is FALSE? It is located in the midbrain. Which of the following is an example of brain reorganization? all of the above

Alcohol is BEST classified as a _____ drug. depressant

Which of the following drugs influence the activity of GABA? all of the above

Psychedelic drugs often produce hallucinations by stimulating serotonin receptors

The MOST compelling reason to believe that marijuana is

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an addictive substance is that animals will self-administer it. Which stimulant increases arousal level through blocking of adenosine receptors? caffeine. Recent evidence regarding the role of dopamine in learning suggests that dopamine is more likely to be released when a reinforcer is unpredictable. Which of the following characteristics typifies early-onset alcoholics? They tend to be novelty seekers. Agonist treatments for drug addiction mimic the drug's effect. People with the A1 allele are more likely to be alcoholics. Which of the following will increase dopamine levels in the nucleus accumbens (mesolimbocortical dopamine system)? all of the above. The view of modern psychologists regarding instincts is that they exist in lower organisms but either not in humans or only in minimal form. In homeostasis, the set point is a level of equilibrium to which the system strives to return. During the absorptive phase of digestion, some of the glucose is converted into glycogen and stored in the liver and muscles. The difference between anorexia nervosa and bulimia nervosa is anorexia nervosa includes excessive exercising, binge/purge cycles, and caloric restriction while bulimia nervosa is limited to binge/purge cycles. Compulsive eating and drug abuse are both associated with _____ in _____ receptors. Deficits; D2. Males have a sexual _____ period while females do not. refractory. Which brain area is most important for sexual responses of both sexes? medial preoptic area. The neurotransmitter _____ is released in the _____ and this mirrors behavior during the Coolidge effect. dopamine, nucleus accumbens. Which of the following is true with regard to the causation of homosexuality? Homosexuality appears to be partly biologically determined. Which of the following statements

regarding pheromones in humans is FALSE? Pheromones have been linked to sexual attraction, but not sexual behavior.