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Which approach is particularly well suited to providing a clinical overview of a condition, but may yield ambiguous answers to theoretical questions about particular processes if the condition is relatively nonspecific?

<https://selldocx.com/products/test-bank-baddeley-memory-3e-nan>

Answer:

(A Randomized clinical trial
)

(D Group study
)

(B Computer modeling
)

(C Selective lesioning
)

(D Group study
)

(E)Transcranial-magnetic stimulation

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The more severe the accident leading to TBI, the:

Answer:

(A Longer the expected period of
) unconsciousness

(E All of these
)

(B Poorer the chance of a good recovery
)

(C Greater the memory disturbance
)

(D Worse the prognosis
)

(E)All of these

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An especially powerful way of ruling out the possibility that a deficit in one task represents a simple disparity in difficulty with another task, for which performance is preserved, is the:

Answer:

(A Occam's razor
)

(D Double dissociation
)

(B Case study
)

(C Single dissociation
)

(D Double dissociation
)

(E)Counterfactual

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The process of carrying out a large set of experiments focused on addressing the same theoretical question, but using different methods and participant groups is called:

Answer:

(A Exact replication

-) (C Converging operations)
-) (B Divergence)
-) (C Converging operations)
-) (D Bootstrapping)
-) (E)Default mode

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Rotating an X-ray detector around a person's head to form a three-dimensional representation of their brain is an example of:

Answer:

-) (A Intracranial cellular recording)
-) (E Computerized tomography)
-) (B Magnetic resonance imaging)
-) (C Electrocardiography)
-) (D Electroencephalography)
-) (E)Computerized tomography

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MRI can distinguish various structures in the brain (e.g. white matter from gray matter) by doing which of the following?

Answer:

-) (A Staining the cells differently)
-) (D Varying the frequency of the radio pulse)
-) (B Implanting electrodes at different depths)
-) (C Directing ionizing radiation at the brain from different angles)
-) (D Varying the frequency of the radio pulse)
-) (E)Observing infrared reflectance

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Using implanted electrodes to invasively record directly from the brain of patients is limited to brain regions directly relevant to:

Answer:

-) (A The medial temporal lobe)
-) (C Clinical treatment)
-) (B Memory regions)
-) (C Clinical treatment)

(D Theoretical interest of basic research
)

(E)The surface of the brain

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Delivering TMS via which procedure has been known to lead to a temporary "lesion" lasting many minutes?

Answer:

(A Repetitive
)

(A Repetitive
)

(B Single pulse
)

(C Radioactive tracing
)

(D Deep-brain stimulation
)

(E)Intravenous drugs

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EEG involves recording which of the following across the scalp?

Answer:

(A Neurotransmitter release
)

(B Fluctuating voltages
)

(B Fluctuating voltages
)

(C Changes in the oxygenation of blood
)

(D Structural bone density
)

(E)Tiny magnetic fields generated by
groups of neurons and picked up by
SQUIDS

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Event-related potentials typically can be extracted by doing which of the following?

Answer:

(A Taking a blood sample
)

(C Averaging over many repetitions of the same cognitive
) activity

(B Looking at the power of different
) frequency bands during a task

(C Averaging over many repetitions of
) the same cognitive activity

(D Brain surgery to remove the ERPs
)

(E)Injecting a tracer

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Relative to ERP, MEG is:

- (A More expensive
)
- (B Less subject to distortion from the
) skull
- (C Able to potentially offer better spatial
) localization
- (D More sensitive to activity in the sulci
)
- (E)All of these
- Answer:**
(E All of these
)

12 **Currently, the best temporal resolution of ERP and MEG is on the order of:**

- (A Milliseconds
)
- (B Seconds
)
- (C Minutes
)
- (D Picoseconds
)
- (E)Hours
- Answer:**
(A Milliseconds
)

13 **The first functional neuroimaging method developed that relies on the assumption that brain activity can be measured indirectly through its metabolism is:**

- (A fMRI
)
- (B PET
)
- (C MEG
)
- (D CT
)
- (E)EEG
- Answer:**
(B) PET

14 **The oxygen in the blood is most precisely carried by which of the following?**

- (A Neurotransmitters
)
- (B Monocytes
- Answer:**
(E Hemoglobin
)

)

(C Radioactive reagents
)

(D Electrical impulses
)

(E)Hemoglobin

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Generally, the peak of a brain response to a stimulus will occur at which delay?

Answer:

(A 5-10 milliseconds
)

(E) Depends on which response is being measured

(B 1-2 seconds
)

(C 5-6 seconds
)

(D 2 minutes
)

(E)Depends on which response is being
measured

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Finding an appropriate cognitive baseline condition is particularly crucial in which of the following basic fMRI procedure?

Answer:

(A Inception
)

(E Subtraction method
)

(B Tractography
)

(C Granger causality
)

(D Effective connectivity
)

(E)Subtraction method

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MVPA stands for which of the following?

Answer:

(A Multi-view photon array
)

(B Multi-voxel pattern analysis
)

(B Multi-voxel pattern analysis
)

(C Myelin vector product arrangement
)

(D Minute vacillation prototype analysis
)

(E) Measured vasopressin accumulation

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After acquiring a statistical representation of brain activity when a person is looking at a car, a researcher might try to detect whether a participant is thinking of a car, through the use of a(n):

Answer:

(A Pattern classifier
)

(A Pattern classifier
)

(B Cochlear implant
)

(C Multi-volume posterior assumption
)

(D Artifact rejection procedure
)

(E) Vocoder

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An attempt to use fMRI as a lie detector in an actual court case resulted in the following conclusion:

Answer:

(A It should not be accepted as evidence
) in court pending further study

(E All of these
)

(B The method had not gained
) widespread acceptance among
scientists

(C The method's real-world accuracy had
) yet to be assessed

(D The method's real-world validity had
) yet to be assessed

(E) All of these

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The systematic decrease in a learned response after repeated presentations of a stimulus is most accurately termed:

Answer:

(A Reward
)

(D Habituation
)

(B Sensitization
)

(C Extinction
)

(D Habituation
)

(E) Punishment

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LTP and LTD are two potential mechanisms of:

(A Neuroimaging
)

(B Learning
)

(C Genotyping
)

(D Binocular rivalry
)

(E)Standardized testing of intelligence

Answer:
(B Learning
)

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Fraternal twins share what percentage of their genes?

(A 50% on average
)

(B 50% exactly
)

(C 100% exactly
)

(D 100% on average
)

(E)75% on average

Answer:
(A 50% on average
)

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Which two researchers are credited with discovering the structure of DNA?

(A Baddeley and Hitch
)

(B Watson and Crick
)

(C Eric Kandel and Donald Hebb
)

(D Rescorla and Wagner
)

(E)Darwin and Sir Francis Galton

Answer:
(B Watson and Crick
)

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Down syndrome can be described as sporadic in that:

(A There's no evidence it runs in families
)

(B It reflects chromosomal abnormalities
)

(C It typically resolves by the seventh
) year of age

Answer:
(A There's no evidence it runs in families
)

(D It tends to arise every other
) generation in families

(E)It is wholly independent of genetic
factors

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Epigenetics refers most accurately to:

Answer:

(A The study of gene-environment
) interaction

(A The study of gene-environment interaction
)

(B The development of genetic hybrid
) animal models

(C The historical analysis of the eugenics
) movement

(D The development of artificial
) intelligence

(E)Simple Mendelian inheritance