(D Transcranial magnetic stimulation

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(A) High proportion of type k-the-students-gu	ide-to-social-neuroscience-2e-ward
(B) High proportion of type I errors	Answer:
(C) Low reliability	(B) High proportion of type I errors
(D Low external validity	
2	What neuroanatomical region is described by the following? 'Sub-cortical grey matter structures lying in the centre of the brain containing the thalamus and hypothalamus'
(A) Diencephalon	
(B) Basal ganglia	Answer:
(C) Limbic system) Diencephalon
(D Midbrain	
3	What type of brain tissue consists primarily of neuronal cell bodies?
(A) White matter	
(B) Glia	Answer: (D Grey matter
(C) Spinal cord)
(D Grey matter	
4	What type of method is particularly linked to the work of Wilder Penfield?
(A) EEG	
(B) Electrical stimulation of the brain	Answer: (B Electrical stimulation of the brain)
(C) Functional MRI	

(B) EEG

)

(B) EEG

(C)	PET	
(D)	Brain lesions	
9		Which method is classed as an invasive procedure?
(A)	fMRI	
(B)	Single-cell electrophysiology	Answer:
(C)	EEG	(B Single-cell electrophysiology
(D)	TMS	
10		Which of following is TRUE about the sympathetic nervou system?
(A)	It decreases arousal (heart rate, breathing, pupil size)	
(B)	It increases arousal (heart rate, breathing, pupil size)	Answer: (B) It increases arousal (heart rate, breathing, pupil size)
(C)	It coordinates muscle activity	,
(D)	It is part of the central nervous system	
11		Which of the following primates is not normally used to create experimental brain lesions?
(A)	Rhesus monkey	
(B)	Marmoset	Answer:
(C)	Chimpanzee	(C Chimpanzee
(D)	Japanese macaque	
12		Which of the following statements is an accurate description of how TMS works?
(A)	The stimulating coil contains an electric current which generates a magnetic field and this	Answer: (D The stimulating coil contains an electric current which) generates a magnetic field and this induces a secondary

(B)	The stimulating coil contains a powerful magnet that induces a secondary electric current in the brain.	
(C)	The stimulating coil contains a powerful magnet and this prevents neurons from firing.	electric current in the brain.
(D)	The stimulating coil contains an electric current which generates a magnetic field and this induces a secondary electric current in the brain.	
13		Which of the following statements is TRUE?
(A)	Epigenetics refers to small changes to the DNA sequence.	
(B)	The human genetic code is organized on to 23 pairs of chromosomes.	Answer: (B The human genetic code is organized on to 23 pairs of) chromosomes.
(C)	The expression of genes is fixed from birth.	
(D)	Different cells of the body contain different versions of the genetic code.	
14		Why does an EEG signal need to be averaged over many trials to generate an ERP?
	EEG has a poor spatial resolution.	
(A)	EEG has a poor spatial resolution. EEG has a low signal:noise ratio.	
(A) (B)	EEG has a low signal:noise ratio. The scalp potentials from a single EEG trial are	trials to generate an ERP?
(A) (B)	EEG has a low signal:noise ratio.	trials to generate an ERP? Answer:
(A) (B)	EEG has a low signal:noise ratio. The scalp potentials from a single EEG trial are too weak to measure.	trials to generate an ERP? Answer:
(A) (B) (C) (D)	EEG has a low signal:noise ratio. The scalp potentials from a single EEG trial are too weak to measure.	Answer: (B) EEG has a low signal:noise ratio. What measurement is obtained in studies using diffusion tensor imaging?
(A) (B) (C) (D)	EEG has a low signal:noise ratio. The scalp potentials from a single EEG trial are too weak to measure. To ensure that the ERP is reliable over time	Answer: (B EEG has a low signal:noise ratio.) What measurement is obtained in studies using diffusion

prevents neurons from firing.

(D)	Grey-matter density	
16		What is typically recorded in the method of single cell recording?
(A)	The amplitude of action potentials	
(B)	The electrical activity at the scalp	Answer:
(C)	The change in blood flow associated with neural activity	(D The number of action potentials per second
(D)	The number of action potentials per second	
17		Electromyography (or EMG) is a measure of what?
(A)	Electrical activity associated with the sympathetic system	
(B)	Electrical activity associated with muscle movement	Answer: (B) Electrical activity associated with muscle movement
(C)	The skin conductance response	,
(D)	Electrical activity in the brain stem	
18		How long does it take the skin conductance response to peak after viewing an eliciting stimulus?
(A)	1–5 seconds	
(B)	0-1 seconds	Answer:
(C)	5-10 seconds	(A 1-5 seconds
(D)	10-15 seconds	
19		If a patient is impaired on task A but impaired on task B this is normally called a:
(A)	Double dissociation	Answer: (B Single dissociation
(B)	Single dissociation	

(C)	Syndrome	
(D)	Virtual lesion	
20		Neurons selectively respond to certain types of information in the environment. How is this achieved?
(A)	The amplitude of the action potential is greater for certain types of information.	
(B)	Different neurochemicals are released depending on the stimulus being processed.	Answer: (D The frequency of the action potential is greater for certain
(C)	Different dendritic configurations are used for different types of information.) types of information.
(D)	The frequency of the action potential is greater for certain types of information.	
21		The approach of using patients with acquired brain damage to inform theories of normal cognition is called:
(A)	Information processing	
(B)	Reductionism	Answer:
(C)	Cognitive neuropsychology	Cognitive neuropsychology
(D)	Psycho-neurology	
22		The autonomic nervous system has two branches termed the:
(A)	Sympathetic and parasympathetic nervous system	
(B)	Central and peripheral nervous system	Answer: (A Sympathetic and parasympathetic nervous system
(C)	Sympathetic and somatic nervous system	,
(D)	Central and somatic nervous system	

in neural activity is called:

(A)	Voxel-based morphometry	
(B)	Cognitive subtraction	Answer:
(C)	Stereotactic normalisation	Haemodynamic response function
(D)	Haemodynamic response function	
24		The process of mapping the geometry of a brain to a standard reference brain is known as:
(A)	Smoothing	
(B)	Signal-to-noise correction	Answer:
(C)	Random field theory	(D Stereotactic normalisation
(D)	Stereotactic normalisation	
25		The process of spreading the activation of one voxel into neighbouring voxels is known as:
(A)	Stereotactic normalisation	
(B)	Signal-to-noise correction	Answer:
(C)	Random field theory	(D Smoothing
(D)	Smoothing	
26		What does fMRI directly measure?
(A)	Electrical activity	
(B)	Concentration of deoxyhaemoglobin in the blood	Answer:
(C)	Magnetic fields created by neuronal firing	(B Concentration of deoxyhaemoglobin in the blood
(D)	The dilation of blood vessels in the brain	

(A)	The extent to which two independent raters would generate the same answers	
(B)	The extent to which a method has real-world applicability	Answer: (D The extent to which the same measure would yield the
(C)	A statistical method for reducing the complexity of a data set) same result if repeated
(D)	The extent to which the same measure would yield the same result if repeated	
28		What is the name of the raised folds of the cortex?
(A)	Sulci	
(B)	Fissures	Answer:
(C)	Lobes	(D) Gyri
(D)	Gyri	
29		What is the term given to a disruption of blood supply to the brain that may result in brain damage or death?
	Edema	
(A)	Edema Stroke	the brain that may result in brain damage or death? Answer:
(A) (B)		the brain that may result in brain damage or death?
(A) (B)	Stroke	the brain that may result in brain damage or death? Answer:
(A) (B)	Stroke Herpes-simplex encephalitis	the brain that may result in brain damage or death? Answer:
(A) (B)	Stroke Herpes-simplex encephalitis	the brain that may result in brain damage or death? Answer:
(A) (B) (C) (D)	Stroke Herpes-simplex encephalitis Split-brain	Answer: (B)Stroke Why is a baseline condition(s) needed in functional imaging experiments?
(A) (B) (C) (D)	Stroke Herpes-simplex encephalitis Split-brain Because the brain is always physiologically	Answer: (B)Stroke Why is a baseline condition(s) needed in functional imaging experiments?

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What is meant by the reliability of a method?

(D To solve the 'inverse problem'