(B)Slow neural response time

(A)Unlimited cognitive resources

Single-cell recordings are typically only carried out in:

1

(B) Slow neural response time	
(C) Sensory bottleneck	
(D Poor spatial resolution)	
6	In what domain of neuroscience is graph theory normally applied?
(A)Distributions of neurotransmitters	Answer: (C)Mathematical modelling of networks
(B) Electrical brain stimulation	
(C) Mathematical modelling of networks	
(D Reductionism)	
7	What is meant by "reductionism"
(A)Mind and brain are two different levels of explanation for the same thing, but not two different kinds of thing	Answer: (C The belief that mind-based concepts will eventually be replaced by) purely biological constructs
(B)The idea that different regions of the brain perform different functions	
(C)The belief that mind-based concepts will eventually be replaced by purely biological constructs	
(D The belief that the mind and body are) composed from different types of substance	
8	Just as reaction times are speeded up by the subliminal presentation of the same visual word beforehand, brain activation in which region is more efficient under the same circumstances?
(A)Left fusiform cortex	Answer: (A)Left fusiform cortex
(B) Right caudate nucleus	
(C) Bilateral hippocampus	
(D Retrosplenial cortex)	
9	Which of the following is NOT one of Fodor's properties of a module?

Answer:

(A)Innateness	(B)Influenced by top-down processing
(B)Influenced by top-down processing	
(C) Domain specificity	
(D Rapid processing)	
10	What is meant by a "domain-specific" process?
(A)A process that operates on one specific type of information	Answer: f (A)A process that operates on one specific type of information
(B) More advanced stages of processing can influence more basic ones	
(C) Hierarchical processing in which smaller pieces of information combine into bigger ones	
(D A process that has a specific location in the) brain	
11	Put the following four landmarks in cognitive neuroscience in chronological order, starting with the earliest: fMRI developed, EEG developed, TMS developed, CT scans developed:
(A)EEG, CT, fMRI, TMS	Answer: (D)EEG, CT, TMS, fMRI
(B) EEG, TMS, CT, fMRI	
(C)CT, EEG, fMRI, TMS	
(D EEG, CT, TMS, fMRI)	
12	Which philosopher is associated with a "dual-aspect theory" of mind and brain?
(A)Descartes	Answer: (B)Spinoza
(B) Spinoza	
(C) Churchland	
(D Dennett)	
13	Which philosopher is associated with a reductionist theory of mind and brain?

Answer:

(A)Churchland	(A)Churchland
(B) Velmans	
(C) Spinoza	
(D Descartes)	
14	What additional insight into Broca's study of language localization did Wernicke and Lichtheim add?
(A)That language may be localized in left frontal lobe	Answer: (C)That comprehension and production may be separable processes
(B)That language is separate from other cognitive domains	
(C)That comprehension and production may be separable processes	
(D That speaking and reading are distinct) processes	
15	Which method is classed as an invasive procedure?
(A)PET	Answer: (A) PET
(B)fMRI	
(C) EEG	
(D TMS	
16	Which method has the best spatial resolution?
(A)EEG	Answer: (B)fMRI
(B)fMRI	
(C) Reaction-time studies	
(D PET)	
17	TMS involves applying which of the following across the skull with a stimulating coil?
(A)Pulsed light	Answer: (B)Magnetic fields

(B) Magnetic fields	
(C) Saline solution	
(D Electric fields)	
18	Broadbent's (1958) model depicted a sequence of processing stages using:
(A)EEG source localization	Answer: (D)Box and arrow diagrams
(B) Cytoarchitecture	
(C) Bayesian analysis	
(D Box and arrow diagrams)	
19	What type of method is particularly linked to the work of Wilder Penfield?
(A) Electrical stimulation of the brain	Answer: (A)Electrical stimulation of the brain
(B) Phrenology	
(C) Functional MRI	
(D Transcranial magnetic stimulation)	
20	The approach of using patients with acquired brain damage to inform theories of normal cognition is called:
(A)Cognitive neuropsychology	Answer: (A)Cognitive neuropsychology
(B) Reductionism	
(C)Information processing	
(D Psychoneurology)	
21	What is meant by "top-down processing"?
(A) Processing that operates on one specific type of information	Answer: (C)More advanced stages of processing can influence more basic ones
(B) Hierarchical processing in which smaller pieces of information combine into bigger ones	

influence more basic ones	
(D Direct stimulation of the brain (e.g. electrically)	y)
22	What is closely associated with Gall and Spurzheim?
(A)Cognitive neuropsychology	Answer: (B)Phrenology
(B) Phrenology	
(C) Electrical brain stimulation	
(D Dualism)	
23	Who put forward a dualistic view of brain and mind?
(A)Broca	Answer: (C) Descartes
(B) Churchland	
(C) Descartes	
(D Fodor)	
24	In connectionist models of cognition, what are the information-carrying units called?
(A) Nodes	Answer: (A) Nodes
(B) Weights	
(C) Modules	
(D Neurons)	
25	In his anatomical drawings of the brain, which structure(s) did Vesalius (1514–1564) highlight in detail?
(A)Cortical surface	Answer: (B) Ventricles
(B) Ventricles	
(C) Pineal gland	

(C) More advanced stages of processing can

(D Basal ganglia)	
26	Which method(s) have a spatial resolution at the single neuron level?
(A)Single-cell recording only	Answer: (A)Single-cell recording only
(B)Single-cell recording and TMS	
(C) TMS only	
(D Neither single-cell recording nor TMS)	
27	What is the mind-body problem?
(A)The belief that the mind and body are composed from different types of substance	Answer: (D The problem of how a physical substance can give rise to mental) experience
(B)The problem of knowing whether other people have mental experiences	
(C)The problem of finding which part of the body creates the mind	
(D The problem of how a physical substance can) give rise to mental experience	
28	Which of the following ideas most closely relates to Broca's studies of language?
(A)Brain plasticity	Answer: (C)Functional specialization
(B)Top-down processing	
(C) Functional specialization	
(D Distributed processing)	
29	Which method has the best temporal resolution?
(A)EEG	Answer: (A) EEG
(B)fMRI	
(C)PET	
(D Brain lesions)	

Who discovered that applying electrical currents over certain regions of a dog's cortex can stimulate movement?

Answer:

(C)Fritsch and Hitzig (1870)

(A) Berger (1929)(B) Purkinje (1837)(C) Fritsch and Hitzig (1870)(D Hodgkin and Huxley (1938)