

Brain Quiz: questions and answers



1. What is the main function of the brain?

- To pump blood through the blood vessels of the circulatory system
- To serve as the center of the nervous system in all vertebrate and most invertebrate animals
- To remove waste and extra fluid from the blood

2. Where is the oculomotor nuclei located?

- Spinal cord
- Midbrain
- Hindbrain

3. In a human, the cerebral cortex contains approximately:

- 10 to 20 million neurones
- 6 to 10 million neurones
- 1 to 3 million neurones

4. How large is the brain of a mammal compared to the brain of a bird of its same body size?

- The brain of a mammal is ten times as large as that of a bird of the same body size
- The brain of a mammal is four times as large as that of a bird of the same body size
- The brain of a mammal is twice as large as that of a bird of the same body size

5. What is the name given to an electrically excitable cell that receives, processes, and transmits information through electrical and chemical signal?

- Ganglion
- Neuron

Synapses

6. Who chose the sea slug *Aplysia californica* as a model for studying the cellular basis of learning and memory?

- Al-Zahrawi
- Rickman Godlee
- Eric Kandel

7. Vertebrate brains are surrounded by a system of connective tissue membranes called:

- Thallamus
- Meninges
- Pons

8. What is the Encephalization Quotient of a dog?

- 2.1
- 0.9
- 1.2

9. What is the function of the cerebellum?

- The cerebellum directs cortical activation of spinal motor circuits
- The cerebellum calibrates precision and timing of movements
- The cerebellum contains motor neurons that directly activate muscles

10. What is the episodic memory?

- The ability of the brain to maintain a temporary representation of information about the task that an animal is currently engaged in
- The ability to refine patterns of body movement by practicing, or more generally by repetition
- The ability to remember the details of specific events

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Right answers

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