

Question 1

Reorganization of neural circuits after damage to the mammalian brain is thought to occur largely through the

- A) accurate regeneration of the damaged neurons.
- B) strengthening of existing connections by release from inhibition.
- C) establishment of new connections by collateral sprouting.
- D) all of the above
- E) both B and C

Answer: <https://biology-forums.com/index.php?topic=246280>

Question 2

Glucostatic theory is to lipostatic theory as

- A) glucose is to fat.
- B) short-term is to long-term regulation.
- C) long-term is to short-term regulation.
- D) both A and B
- E) both A and C

Answer: <https://biology-forums.com/index.php?topic=246495>

Question 3

Only primates and a few other species, such as hamsters and raccoons, have cortical neurons that synapse directly on

- A) muscles.
- B) muscles of the fingers and thumb.
- C) motor neurons that project to the muscles of the fingers and thumb.
- D) spinal interneurons.
- E) targets in the PNS.

Answer: <https://biology-forums.com/index.php?topic=245944>

Question 4

A.T. is a woman with selective damage to her dorsal visual stream. She has

- A) little difficulty making accurate movements under visual control.
- B) substantial difficulty making accurate movements under visual control.
- C) substantial difficulty consciously recognizing objects.
- D) lost all ability to respond to moving images.
- E) both A and D

Answer: <https://biology-forums.com/index.php?topic=245697>

Question 5

Briefly summarize the main stages of human evolution beginning 410 million years ago with the evolution of amphibians.

Answer: <https://biology-forums.com/index.php?topic=245103>

Question 6

In experiments on split-brain laboratory animals, visual information can be presented to only the left hemisphere by

- A) cutting the optic chiasm longitudinally.
- B) blindfolding the left eye.
- C) blindfolding the right eye.
- D) both A and B together
- E) both A and C together

Answer: <https://biology-forums.com/index.php?topic=247200>

Question 7

The three-layered cortical structure of the medial temporal lobe is the _____.

Answer: <https://biology-forums.com/index.php?topic=245255>

Question 8

Which of the following colors does not exist?

- A) greenish red
- B) greenish blue
- C) greenish yellow

- D) greenish purple
- E) greenish tan

Answer: <https://biology-forums.com/index.php?topic=245667>

Question 9

The two most common techniques for producing images of human brain function are PET and functional _____.

Answer: <https://biology-forums.com/index.php?topic=245557>

Question 10

Structural brain-imaging studies of schizophrenic patients typically reveal

- A) widespread abnormalities.
- B) reduced brain size.
- C) abnormally large cerebral ventricles.
- D) all of the above
- E) none of the above

Answer: <https://biology-forums.com/index.php?topic=247536>

Question 11

Research on the lateralization of emotion in humans using functional brain imaging suggests that the degree to which it is lateralized to the right hemisphere depends on

- A) the degree of speech development.
- B) the emotionality of the person.
- C) the particular brain structure under investigation.
- D) cultural factors.
- E) prosody.

Answer: <https://biology-forums.com/index.php?topic=247431>

Question 12

Make three reasonable recommendations for improving the ways in which your country deals with the drug addiction problem. Base your recommendations on relevant research findings and logical arguments.

Answer: <https://biology-forums.com/index.php?topic=247163>

Question 13

The MPTP animal model is a model of _____ disease.

Answer: <https://biology-forums.com/index.php?topic=246314>

Question 14

Many people believe that hunger is a product of

- A) high levels of insulin.
- B) high levels of glucagon.
- C) energy deficits.
- D) meal times.
- E) set points.

Answer: <https://biology-forums.com/index.php?topic=246490>

Question 15

The dorsal-column medial-lemniscus system and the anterolateral system both carry sensory information from the

- A) eyes.
- B) ears.
- C) skin.
- D) nose.
- E) mouth.

Answer: <https://biology-forums.com/index.php?topic=245795>

Question 16

Selective norepinephrine-reuptake inhibitors are used in the treatment of

- A) schizophrenia.
- B) depression.
- C) tuberculosis.

- D) mania.
- E) addiction.

Answer: <https://biology-forums.com/index.php?topic=247562>

Question 17

The most common neurological cause of anosmia is

- A) a tumor.
- B) an infection.
- C) a blow to the head.
- D) a convulsion.
- E) a blow to the nose.

Answer: <https://biology-forums.com/index.php?topic=245861>

Question 18

Opiates likely exert their psychoactive effects by binding to

- A) endorphins.
- B) opiate receptors.
- C) dopamine receptors.
- D) both A and B
- E) both A and C

Answer: <https://biology-forums.com/index.php?topic=247082>

Question 19

Atropine is

- A) an extract of opium.
- B) a cholinergic agonist.
- C) a muscarinic antagonist.
- D) a pupil constrictor.
- E) a catecholamine.

Answer: <https://biology-forums.com/index.php?topic=245382>

Question 20

Prosimians, hominins, and apes are all

- A) old-world monkeys.
- B) new-world monkeys.
- C) langurs.
- D) primates.
- E) both B and C

Answer: <https://biology-forums.com/index.php?topic=245000>